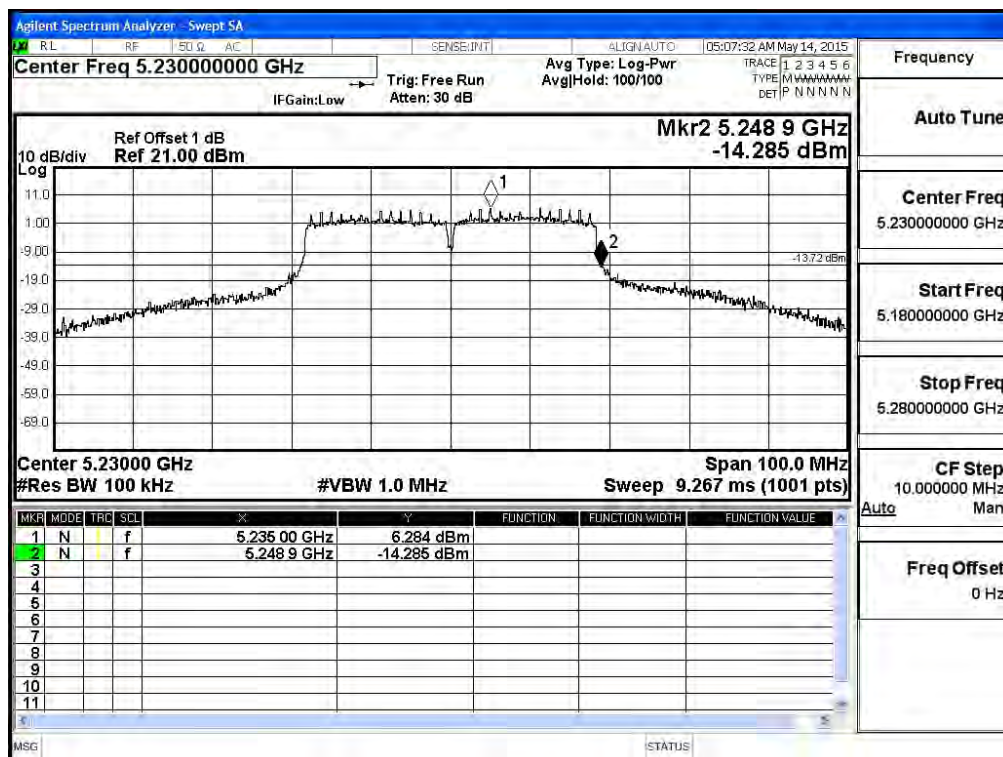


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps)-Channel 46 (External Antenna)

Chain A

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5230	5248.90	<5250	PASS

NOTE: Accordance with 15.215 requirement.

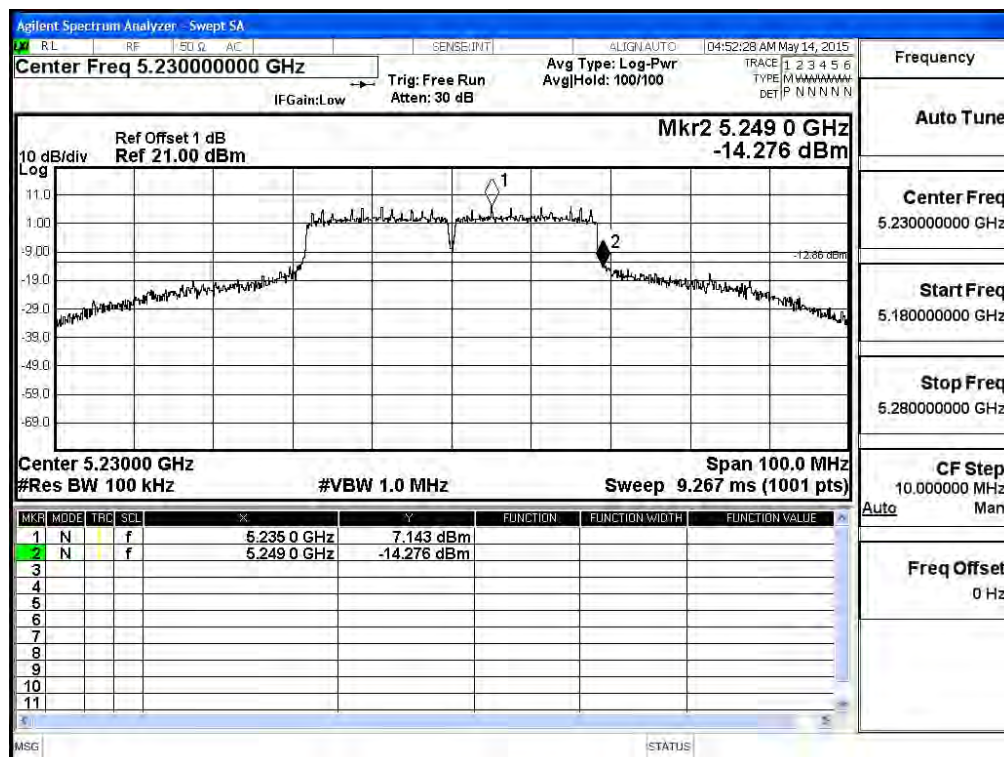


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps)-Channel 46 (External Antenna)

Chain B

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5230	5249.00	<5250	PASS

NOTE: Accordance with 15.215 requirement.

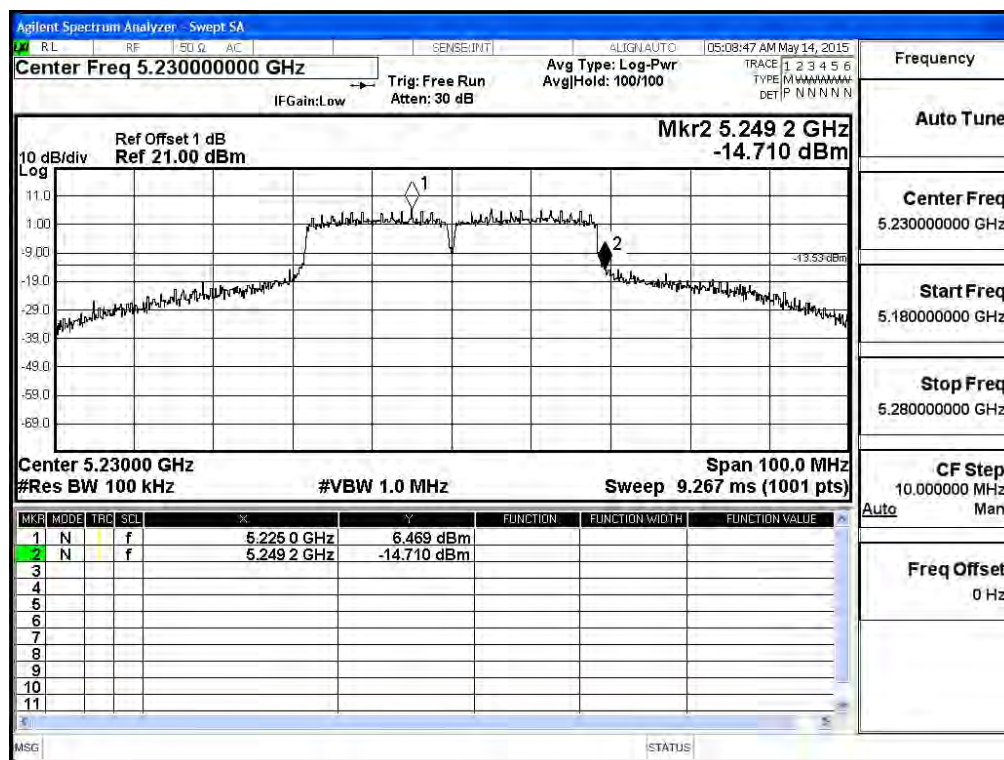


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps)-Channel 46 (External Antenna)

Chain C

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5230	5249.20	<5250	PASS

NOTE: Accordance with 15.215 requirement.



Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 151 (External Antenna)

RF Radiated Measurement :

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-61.860	-43.216	-16.216	-27.000	Pass
Horizontal	5725.000	18.649	-61.230	-42.581	-25.581	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-57.380	-38.084	-11.084	-27.000	Pass
Vertical	5725.000	19.372	-53.390	-34.018	-17.018	-17.000	Pass

Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 159 (External Antenna)

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-72.550	-53.258	-36.258	-17.000	Pass
Horizontal	5860.000	19.415	-74.250	-54.835	-27.835	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-68.690	-48.178	-31.178	-17.000	Pass
Vertical	5860.000	20.635	-69.830	-49.195	-22.195	-27.000	Pass

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps) -Channel 42 (5210MHz) (External Antenna)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
42 (Peak)	5149.400	3.342	54.883	58.226	74.00	54.00	Pass
42 (Peak)	5150.000	3.340	52.573	55.913	74.00	54.00	Pass
42 (Peak)	5197.200	3.164	92.509	95.673	--	--	--
42 (Average)	5150.000	3.340	40.202	43.542	74.00	54.00	Pass
42 (Average)	5182.200	3.226	73.752	76.978	--	--	--

Figure Channel 42: Horizontal (Peak)

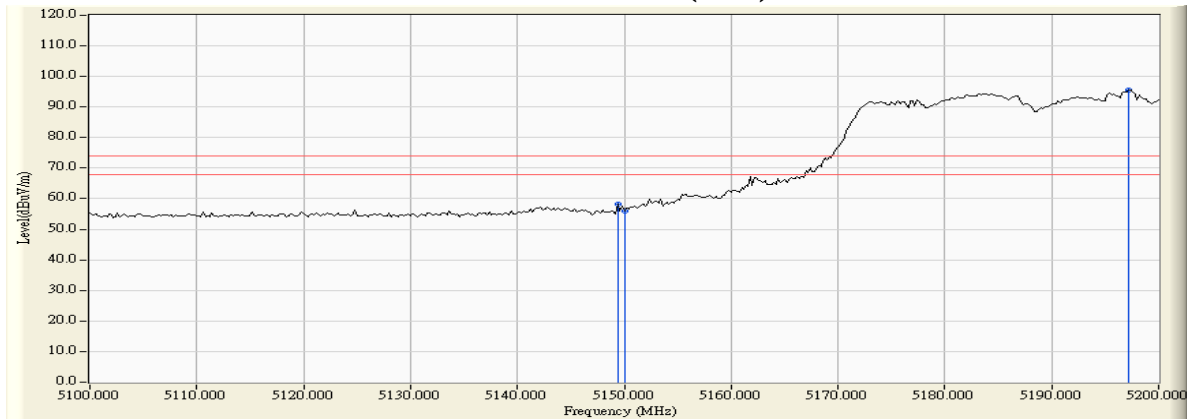
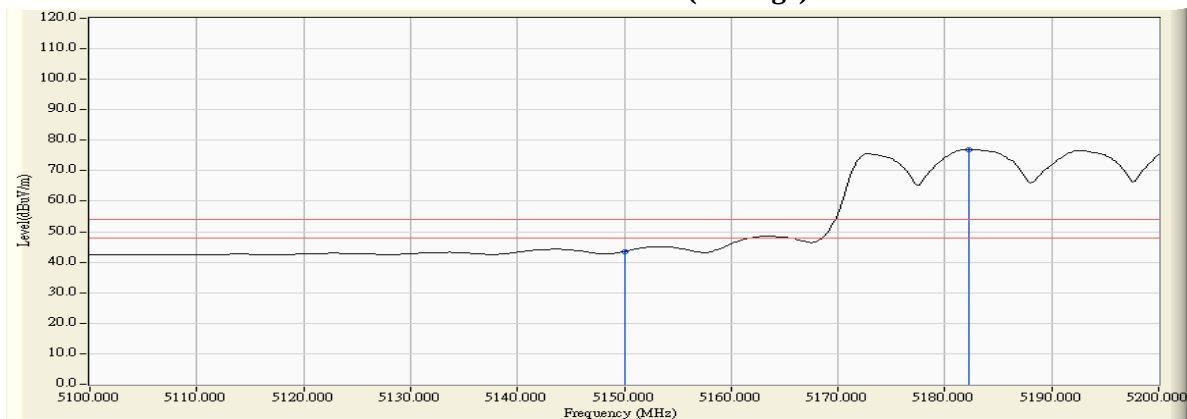


Figure Channel 42: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps) -Channel 42 (5210MHz) (External Antenna)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
42 (Peak)	5138.400	5.227	64.153	69.381	74.00	54.00	Pass
42 (Peak)	5150.000	5.260	58.597	63.857	74.00	54.00	Pass
42 (Peak)	5199.000	5.383	101.050	106.433	--	--	--
42 (Average)	5140.600	5.235	46.560	51.794	74.00	54.00	Pass
42 (Average)	5150.000	5.260	44.249	49.509	74.00	54.00	Pass
42 (Average)	5199.200	5.384	83.355	88.739	--	--	--

Figure Channel 42: Vertical (Peak)

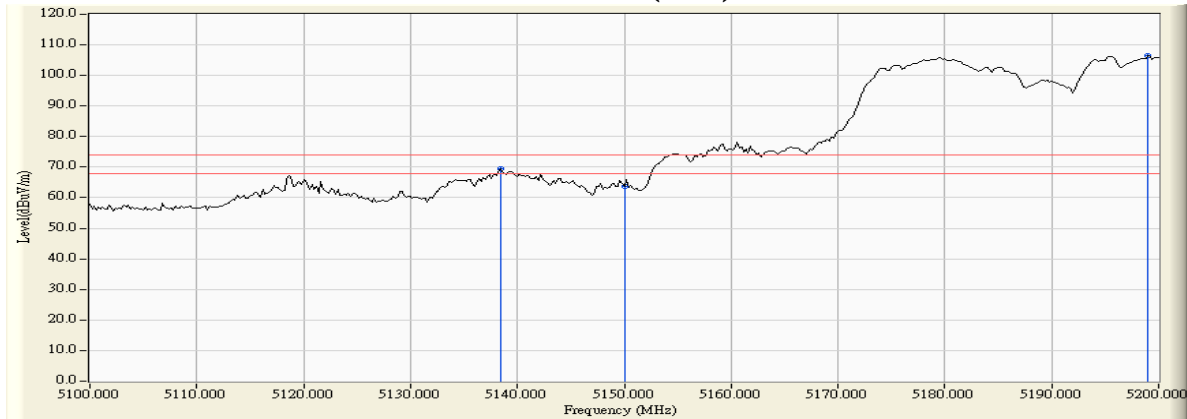
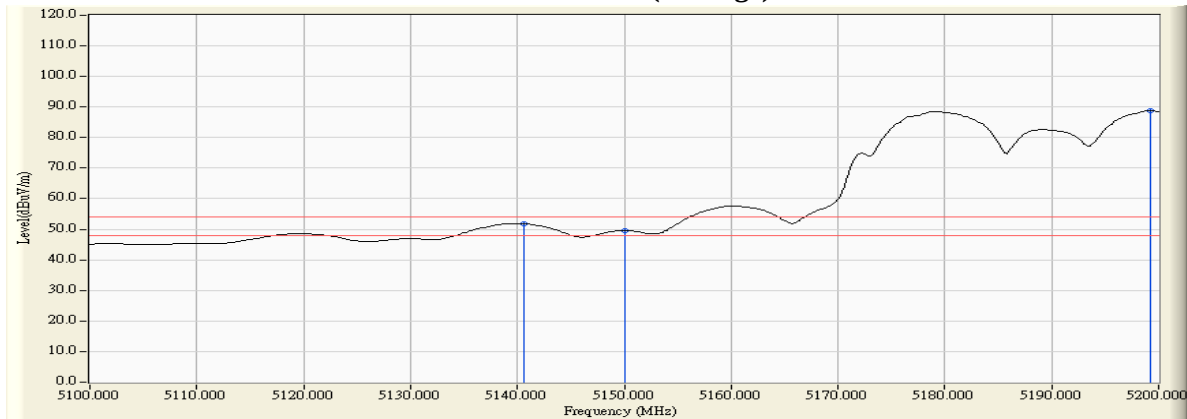


Figure Channel 42: Vertical (Average)



Note:

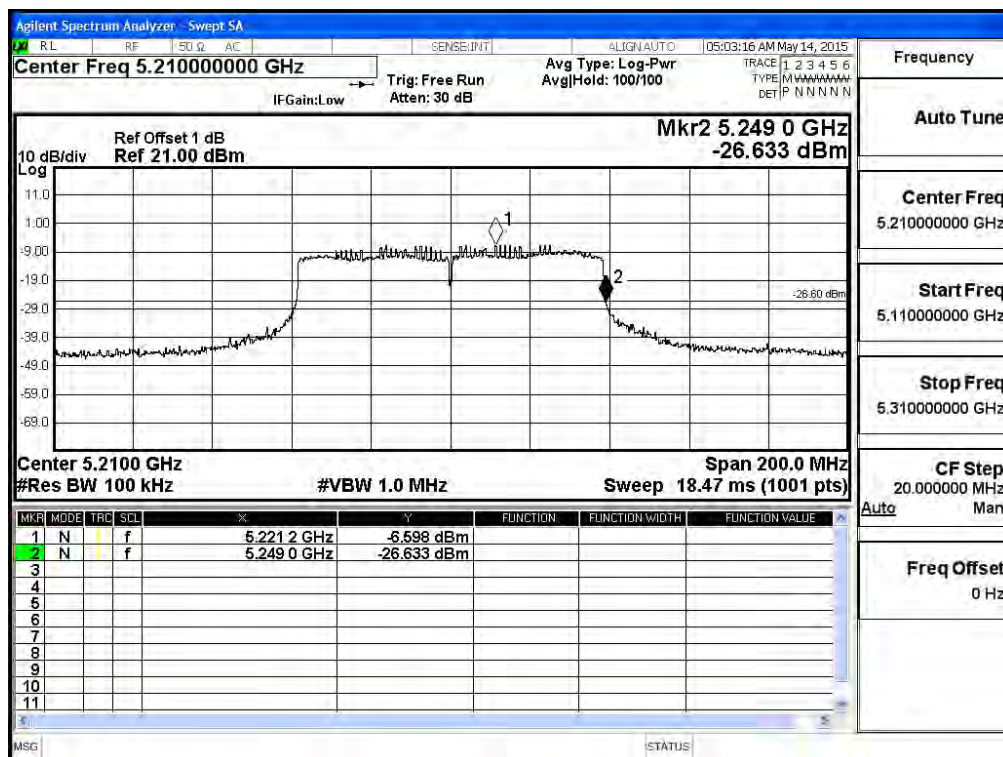
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps) -Channel 42 (External Antenna)

Chain A

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5210	5249.00	<5250	PASS

NOTE: Accordance with 15.215 requirement.

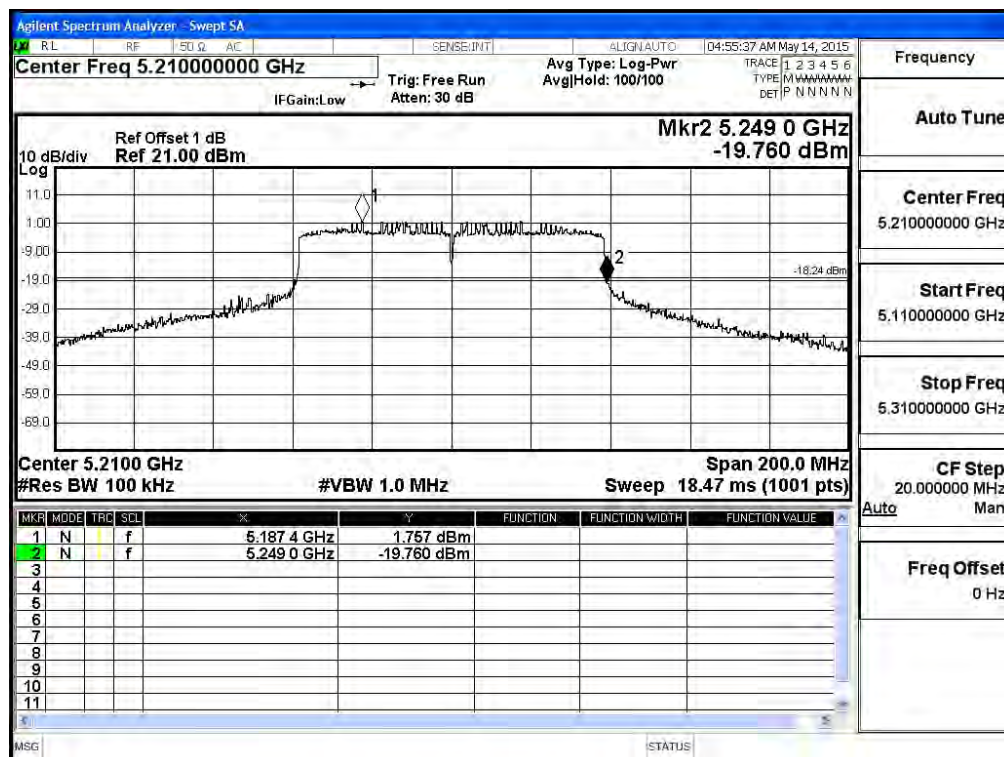


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps)-Channel 42 (External Antenna)

Chain B

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5210	5249.00	<5250	PASS

NOTE: Accordance with 15.215 requirement.

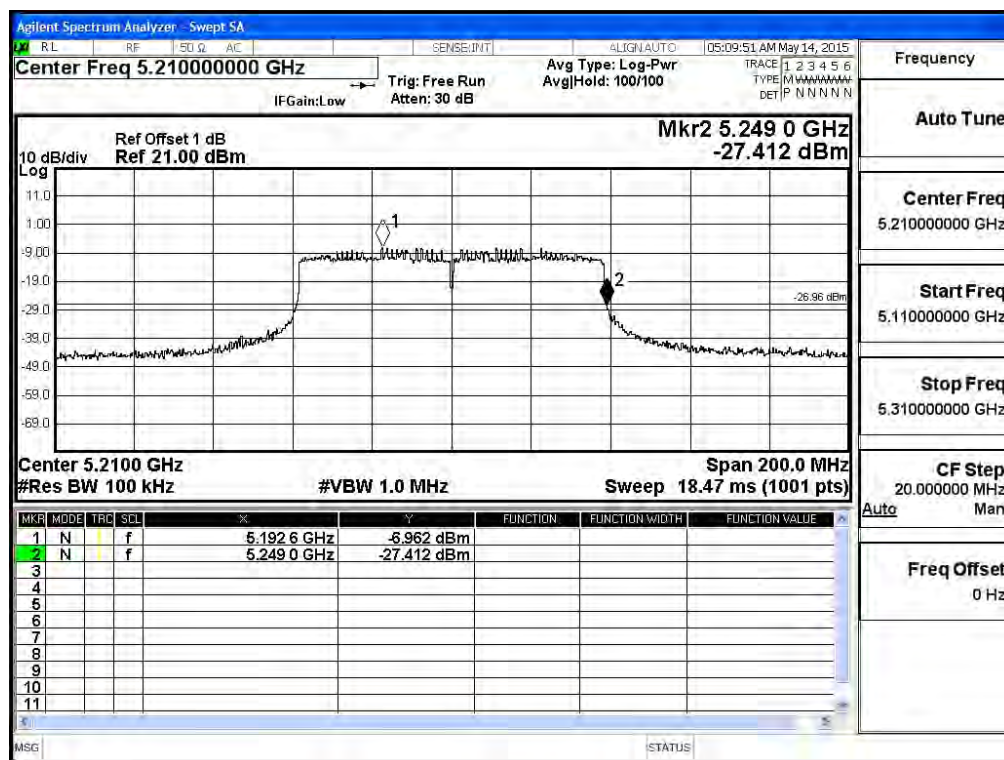


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps)-Channel 42 (External Antenna)

Chain C

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5210	5249.00	<5250	PASS

NOTE: Accordance with 15.215 requirement.



Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps)-Channel 155 (External Antenna)

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-63.490	-44.846	-17.846	-27.000	Pass
Horizontal	5725.000	18.649	-64.810	-46.161	-29.161	-17.000	Pass
Horizontal	5850.000	20.512	-67.370	-46.858	-29.858	-17.000	Pass
Horizontal	5860.000	20.635	-70.170	-49.535	-22.535	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-58.580	-39.284	-12.284	-27.000	Pass
Vertical	5725.000	19.372	-57.470	-38.098	-21.098	-17.000	Pass
Vertical	5850.000	20.512	-64.390	-43.878	-26.878	-17.000	Pass
Vertical	5860.000	20.635	-63.260	-42.625	-15.625	-27.000	Pass

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 36 (5180MHz) (Internal Antenna)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
36 (Peak)	5124.000	3.432	52.490	55.921	74.00	54.00	Pass
36 (Peak)	5150.000	3.340	51.619	54.959	74.00	54.00	Pass
36 (Peak)	5173.200	3.259	104.129	107.388	--	--	Pass
36 (Average)	5129.000	3.414	39.824	43.238	74.00	54.00	Pass
36 (Average)	5150.000	3.340	39.660	43.000	74.00	54.00	Pass
36 (Average)	5183.000	3.224	92.286	95.509	--	--	Pass

Figure Channel 36: Horizontal (Peak)

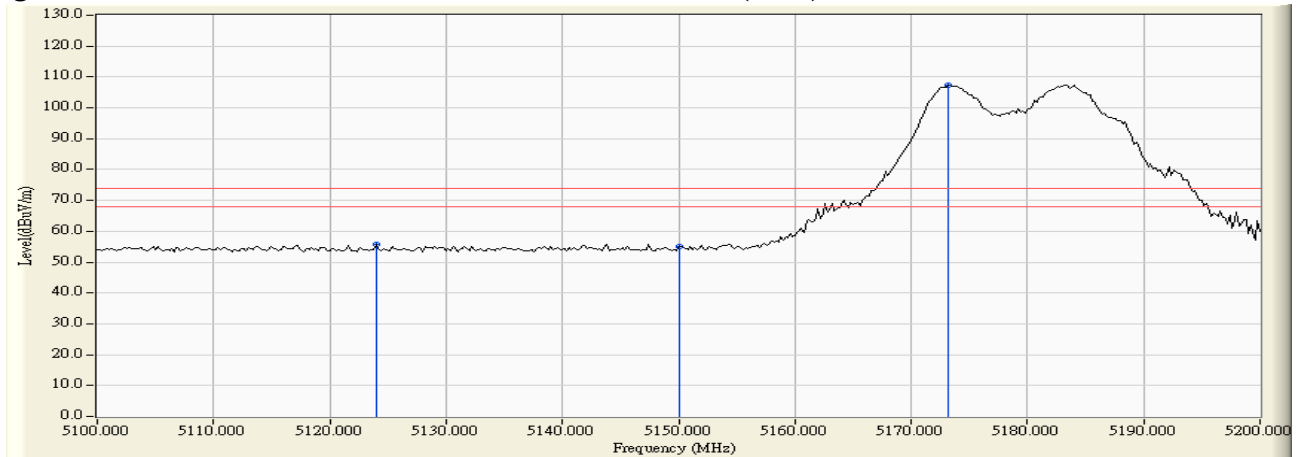
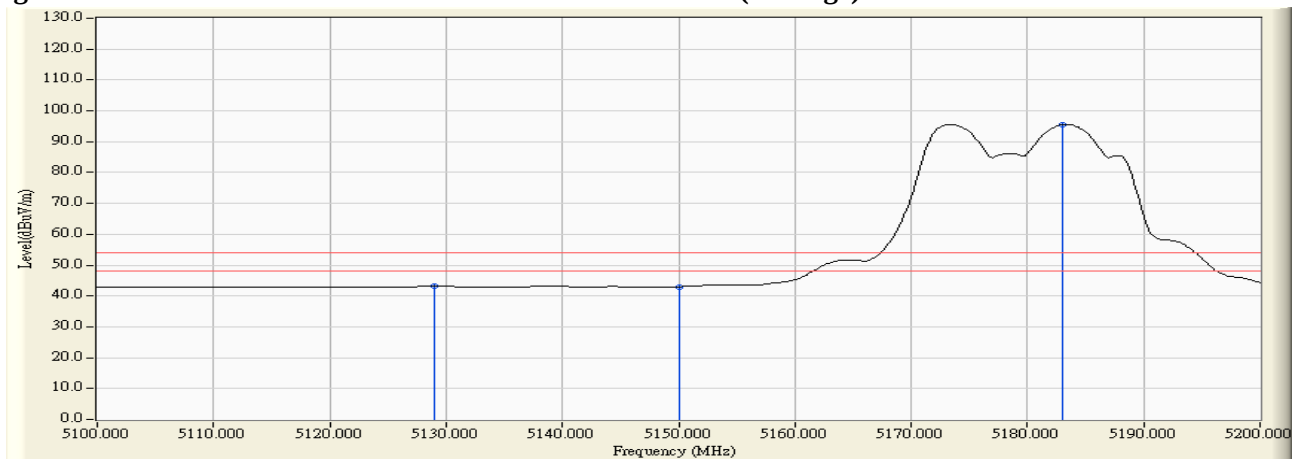


Figure Channel 36: Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 36 (5180MHz) (Internal Antenna)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
36 (Peak)	5149.800	5.260	67.780	73.039	74.00	54.00	Pass
36 (Peak)	5150.000	5.260	67.487	72.747	74.00	54.00	Pass
36 (Peak)	5185.000	5.356	113.820	119.175	--	--	Pass
36 (Average)	5150.000	5.260	46.357	51.617	74.00	54.00	Pass
36 (Average)	5185.200	5.357	101.770	107.126	--	--	Pass

Figure Channel 36: Vertical (Peak)

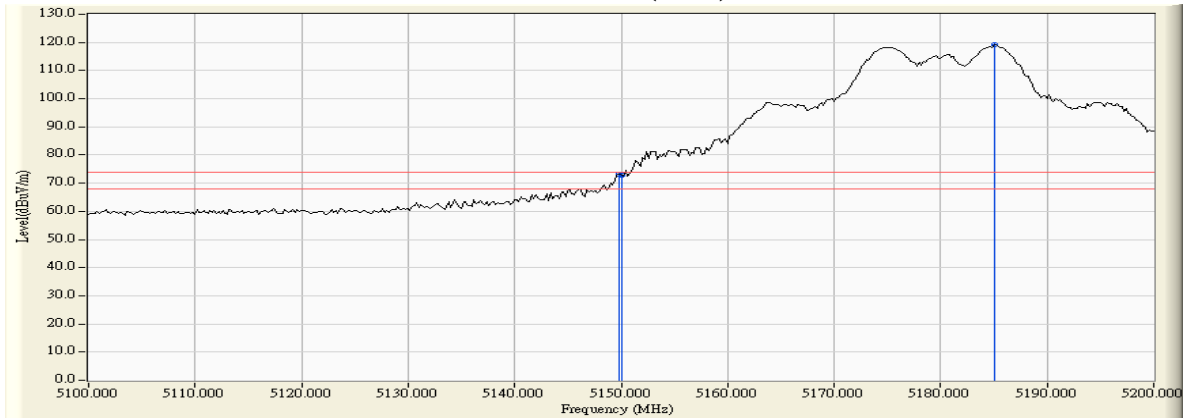
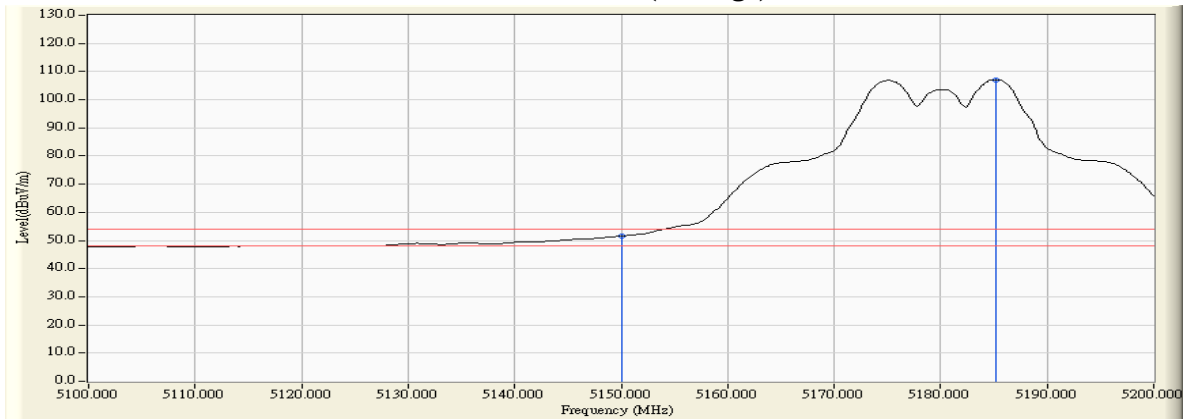


Figure Channel 36: Vertical (Average)



Note:

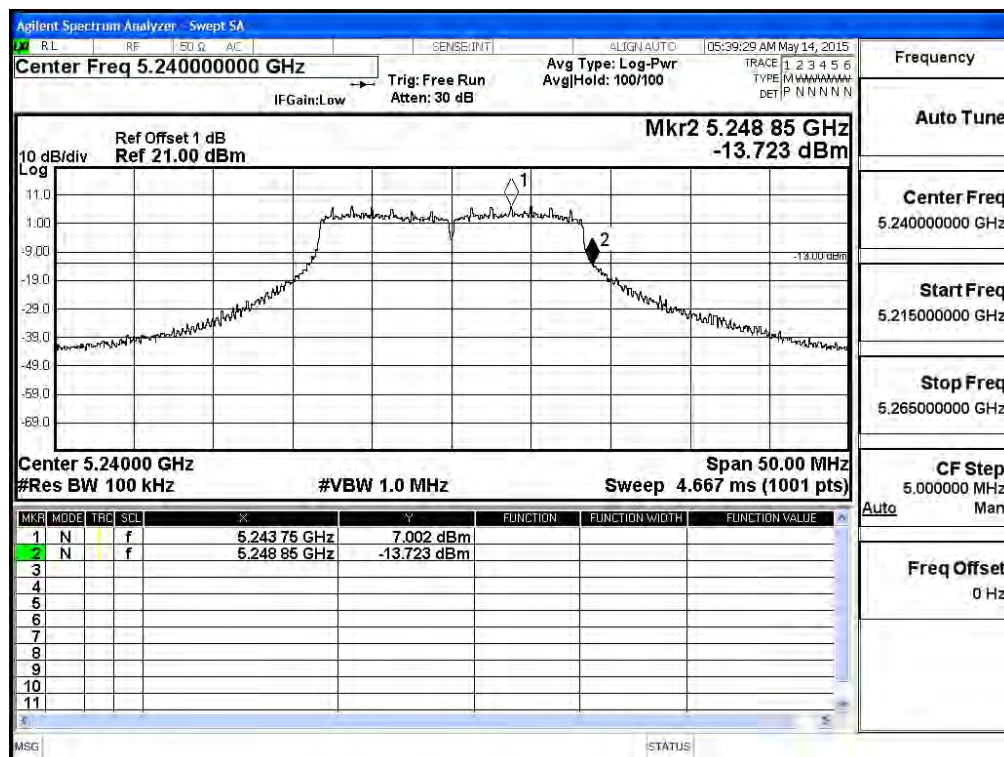
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 48 (Internal Antenna)

Chain A

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5240	5248.85	<5250	PASS

NOTE: Accordance with 15.215 requirement.

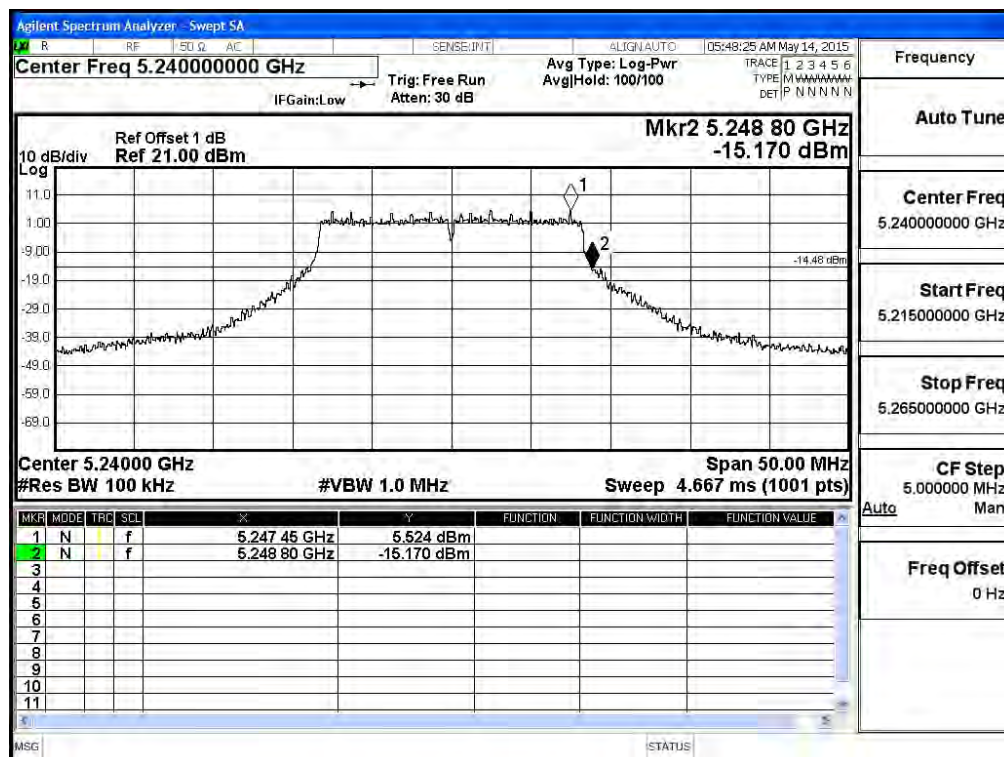


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 48 (Internal Antenna)

Chain B

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5240	5248.80	<5250	PASS

NOTE: Accordance with 15.215 requirement.

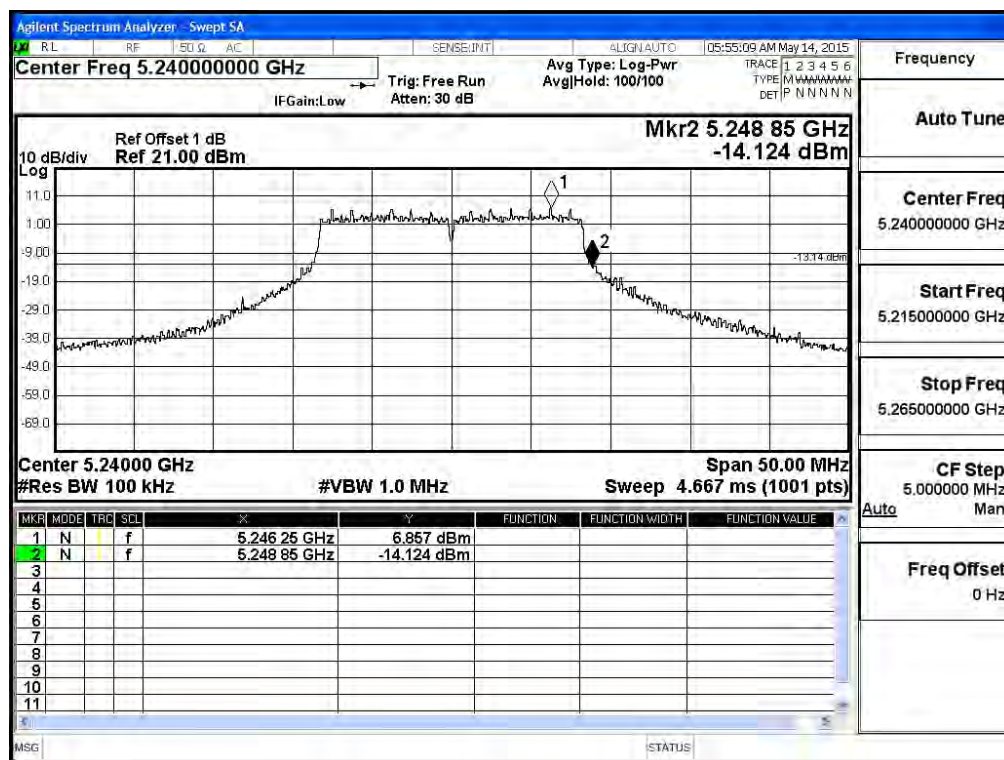


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 48 (Internal Antenna)

Chain C

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5240	5248.85	<5250	PASS

NOTE: Accordance with 15.215 requirement.



Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 149 (Internal Antenna)

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-73.740	-55.096	-28.096	-27.000	Pass
Horizontal	5725.000	18.649	-65.960	-47.311	-30.311	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-71.360	-52.064	-25.064	-27.000	Pass
Vertical	5725.000	19.372	-61.240	-41.868	-24.868	-17.000	Pass

Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 165 (Internal Antenna)

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-71.340	-52.048	-35.048	-17.000	Pass
Horizontal	5860.000	19.415	-76.660	-57.245	-30.245	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-67.560	-47.048	-30.048	-17.000	Pass
Vertical	5860.000	20.635	-73.480	-52.845	-25.845	-27.000	Pass

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) -Channel 36 (5180MHz) (Internal Antenna)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
36 (Peak)	5135.000	3.393	52.545	55.938	74.00	54.00	Pass
36 (Peak)	5150.000	3.340	50.488	53.828	74.00	54.00	Pass
36 (Peak)	5176.000	3.249	104.515	107.764	--	--	--
36 (Average)	5131.600	3.404	39.769	43.173	74.00	54.00	Pass
36 (Average)	5150.000	3.340	39.535	42.875	74.00	54.00	Pass
36 (Average)	5174.600	3.254	91.931	95.185	--	--	--

Figure Channel 36: Horizontal (Peak)

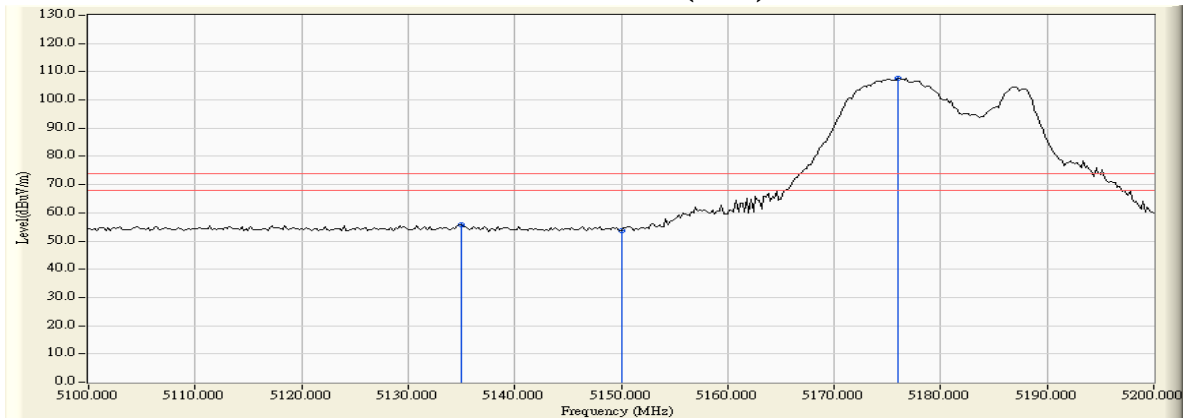
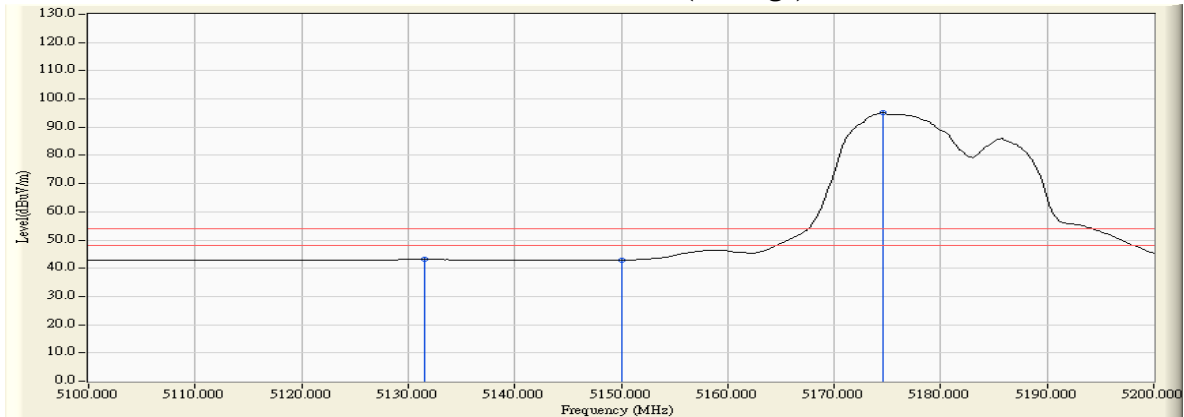


Figure Channel 36: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) -Channel 36 (5180MHz) (Internal Antenna)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
36 (Peak)	5150.000	5.260	67.647	72.907	74.00	54.00	Pass
36 (Peak)	5179.000	5.338	112.755	118.094	--	--	--
36 (Average)	5150.000	5.260	45.615	50.875	74.00	54.00	Pass
36 (Average)	5179.000	5.338	101.171	106.510	--	--	Pass

Figure Channel 36: Vertical (Peak)

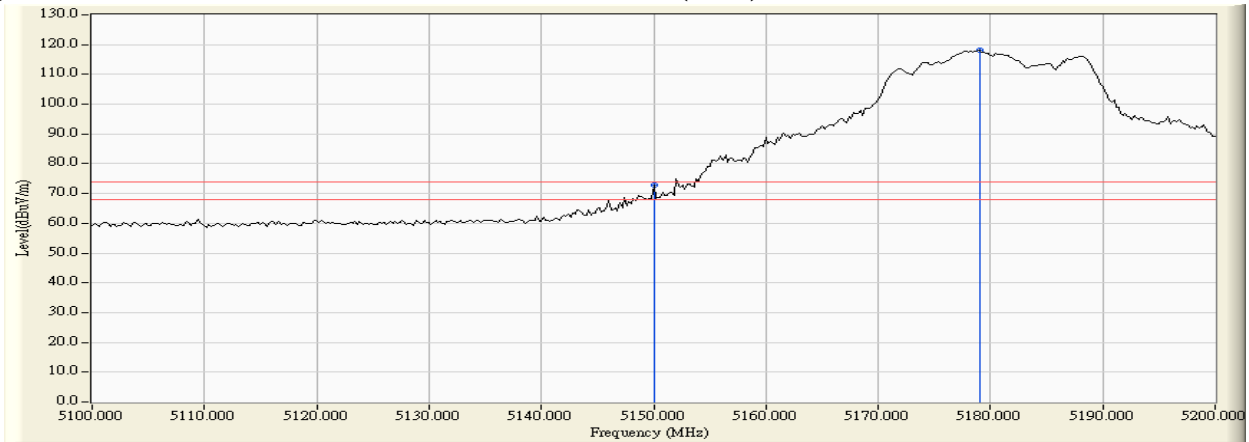
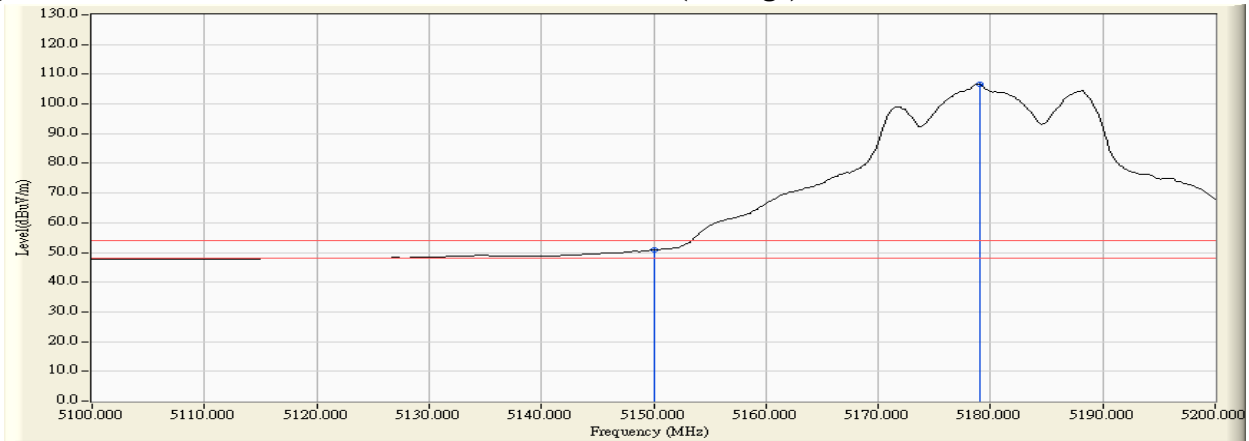


Figure Channel 36: Vertical (Average)



Note:

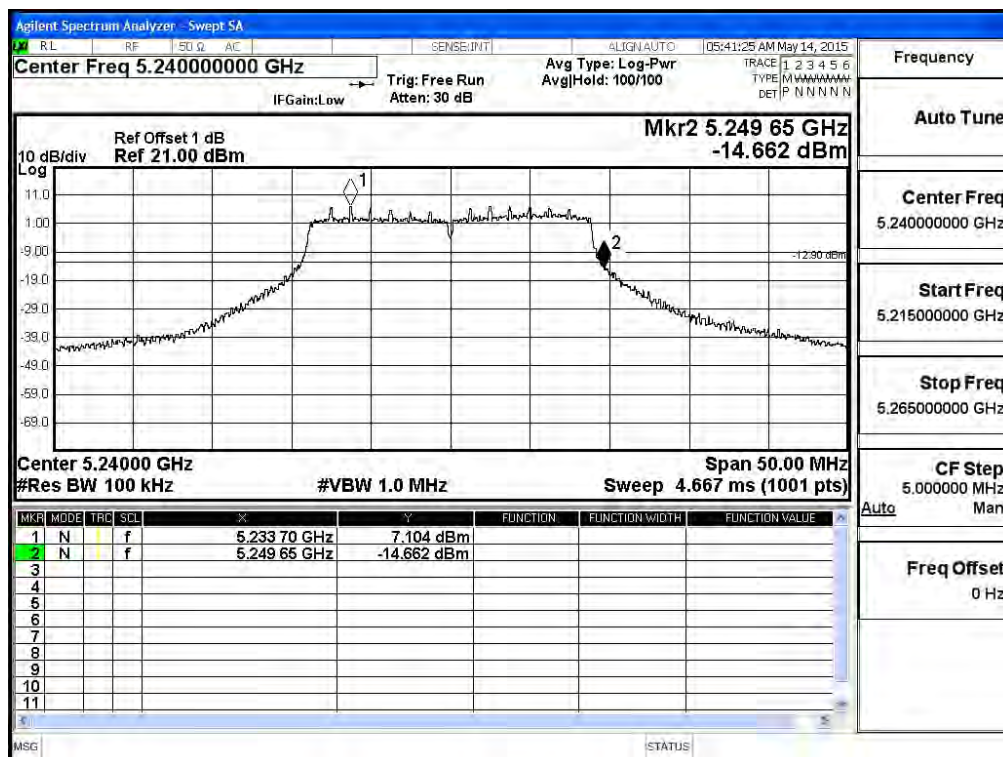
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) Channel 48 (Internal Antenna)

Chain A

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5240	5249.65	<5250	PASS

NOTE: Accordance with 15.215 requirement.

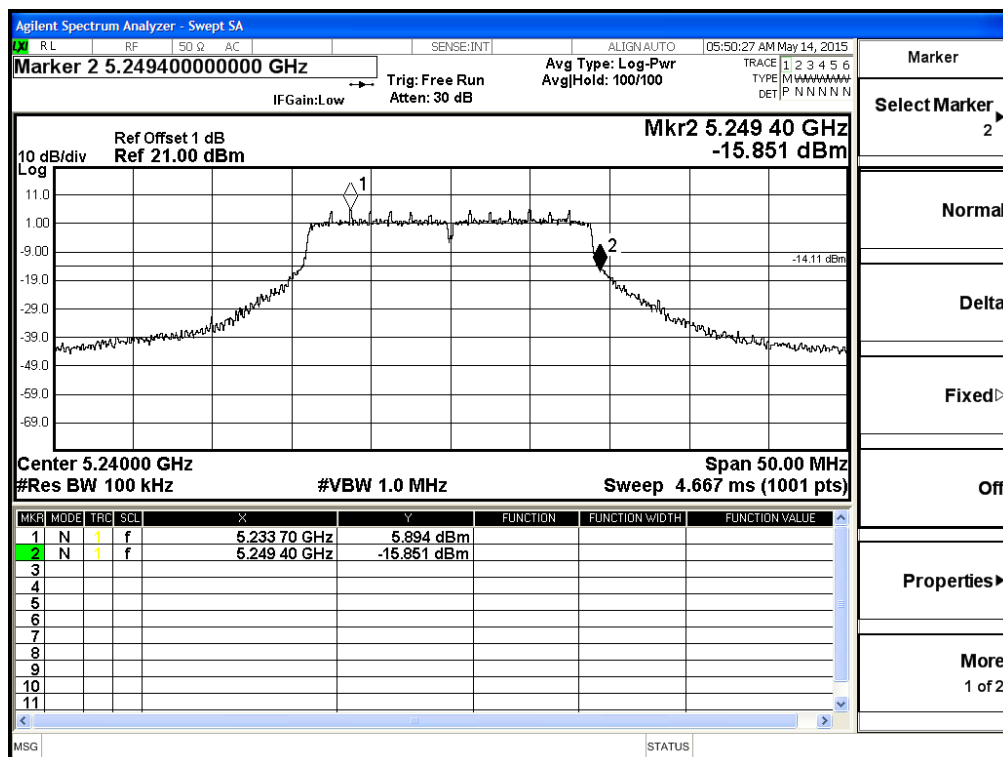


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps)-Channel 48 (Internal Antenna)

Chain B

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5240	5249.40	<5250	PASS

NOTE: Accordance with 15.215 requirement.

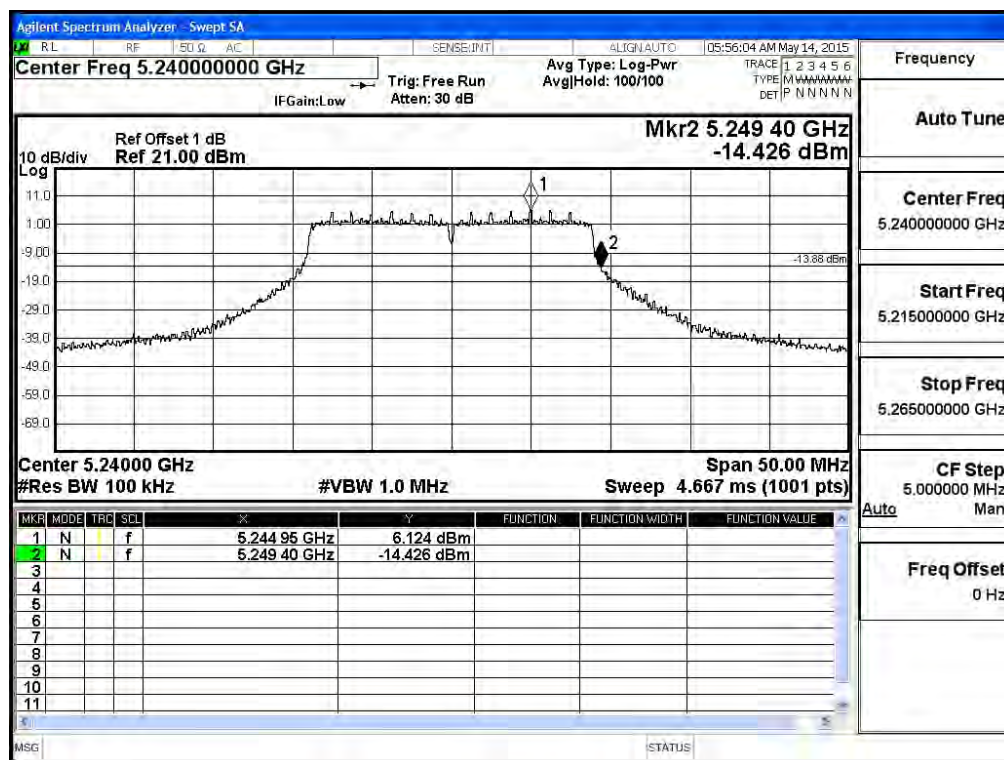


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps)-Channel 48 (Internal Antenna)

Chain C

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5240	5249.40	<5250	PASS

NOTE: Accordance with 15.215 requirement.



Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) -Channel 149 (Internal Antenna)

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-73.660	-55.016	-28.016	-27.000	Pass
Horizontal	5725.000	18.649	-65.280	-46.631	-29.631	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-69.790	-50.494	-23.494	-27.000	Pass
Vertical	5725.000	19.372	-58.110	-38.738	-21.738	-17.000	Pass

Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) -Channel 165 (Internal Antenna)

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-71.350	-52.058	-35.058	-17.000	Pass
Horizontal	5860.000	19.415	-77.990	-58.575	-31.575	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-67.130	-46.618	-29.618	-17.000	Pass
Vertical	5860.000	20.635	-72.340	-51.705	-24.705	-27.000	Pass

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 38 (5190MHz) (Internal Antenna)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
38 (Peak)	5106.200	3.477	52.237	55.714	74.00	54.00	Pass
38 (Peak)	5150.000	3.340	50.314	53.654	74.00	54.00	Pass
38 (Peak)	5195.600	3.171	95.752	98.923	--	--	--
38 (Average)	5150.000	3.340	39.481	42.821	74.00	54.00	Pass
38 (Average)	5195.800	3.170	81.957	85.127	--	--	--

Figure Channel 38: Horizontal (Peak)

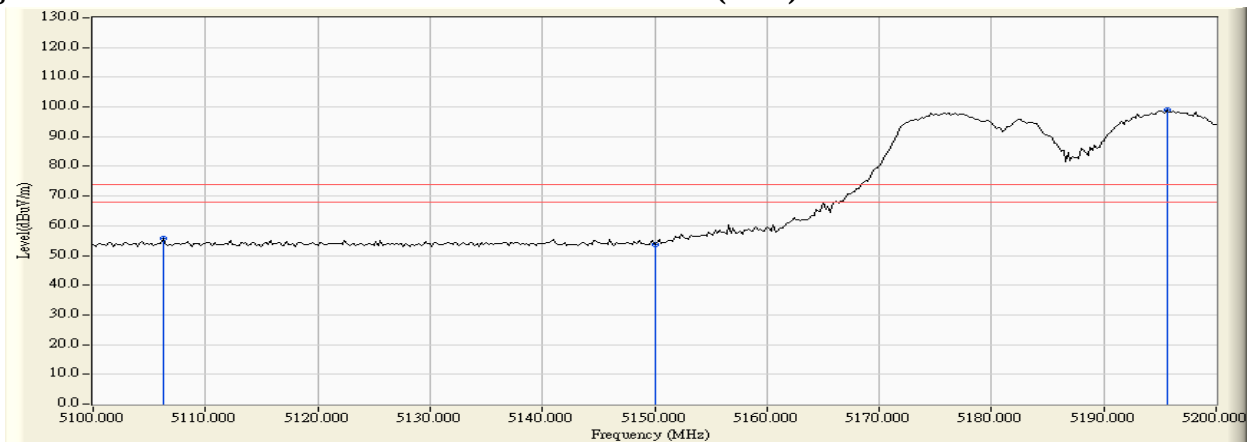
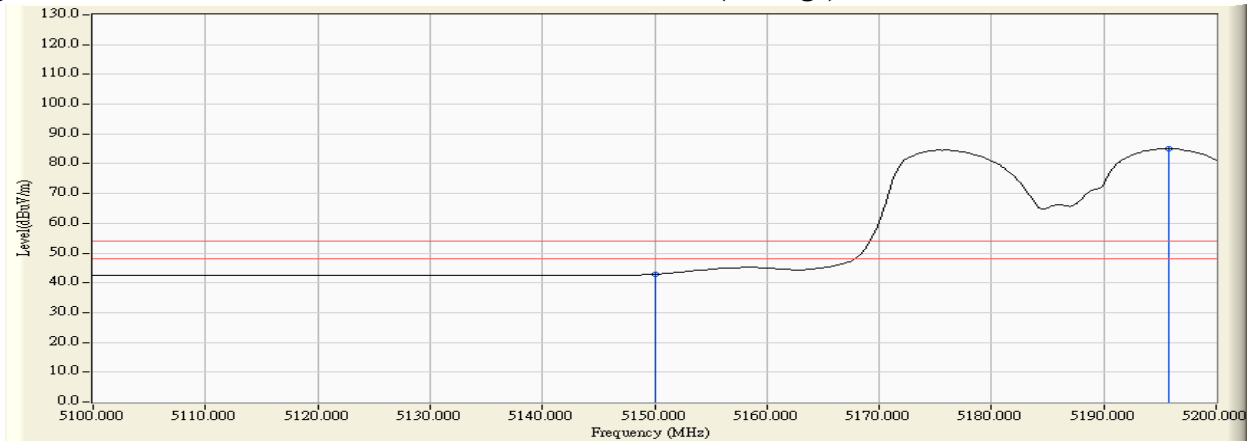


Figure Channel 38: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 38 (5190MHz) (Internal Antenna)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
38 (Peak)	5150.000	5.260	65.270	70.530	74.00	54.00	Pass
38 (Peak)	5198.000	5.381	106.171	111.552	--	--	--
38 (Average)	5150.000	5.260	47.123	52.383	74.00	54.00	Pass
38 (Average)	5199.000	5.383	91.679	97.062	--	--	--

Figure Channel 38: Vertical (Peak)

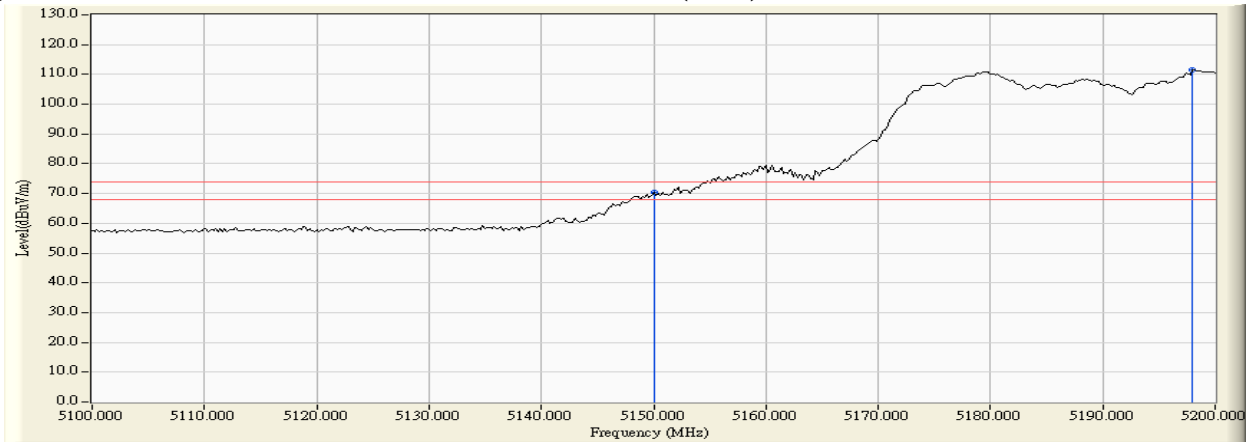
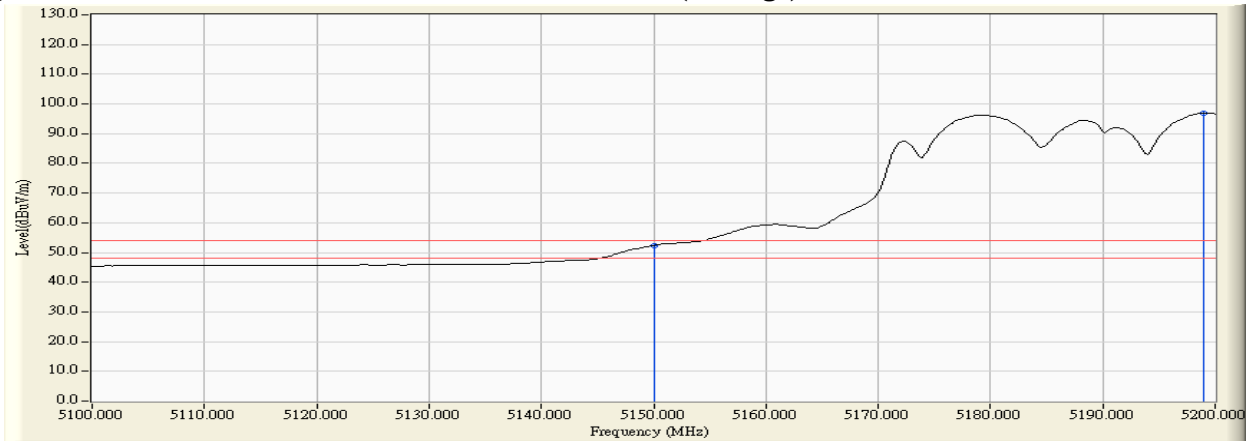


Figure Channel 38: Vertical (Average)



Note:

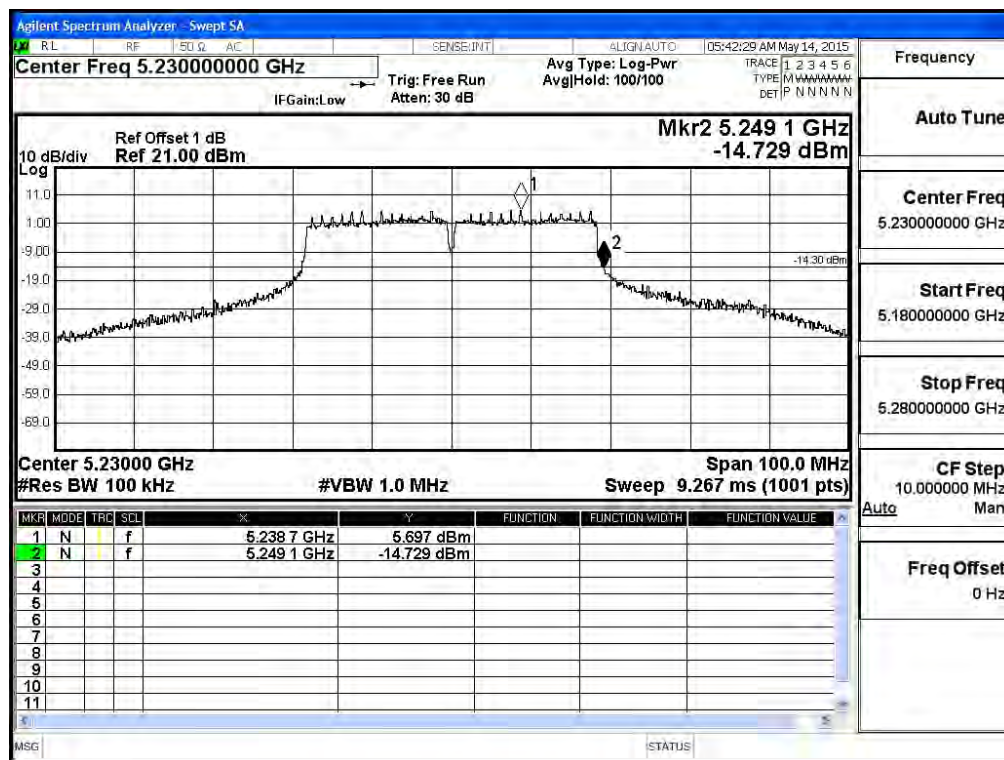
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps)-Channel 46 (Internal Antenna)

Chain A

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5230	5249.10	<5250	PASS

NOTE: Accordance with 15.215 requirement.

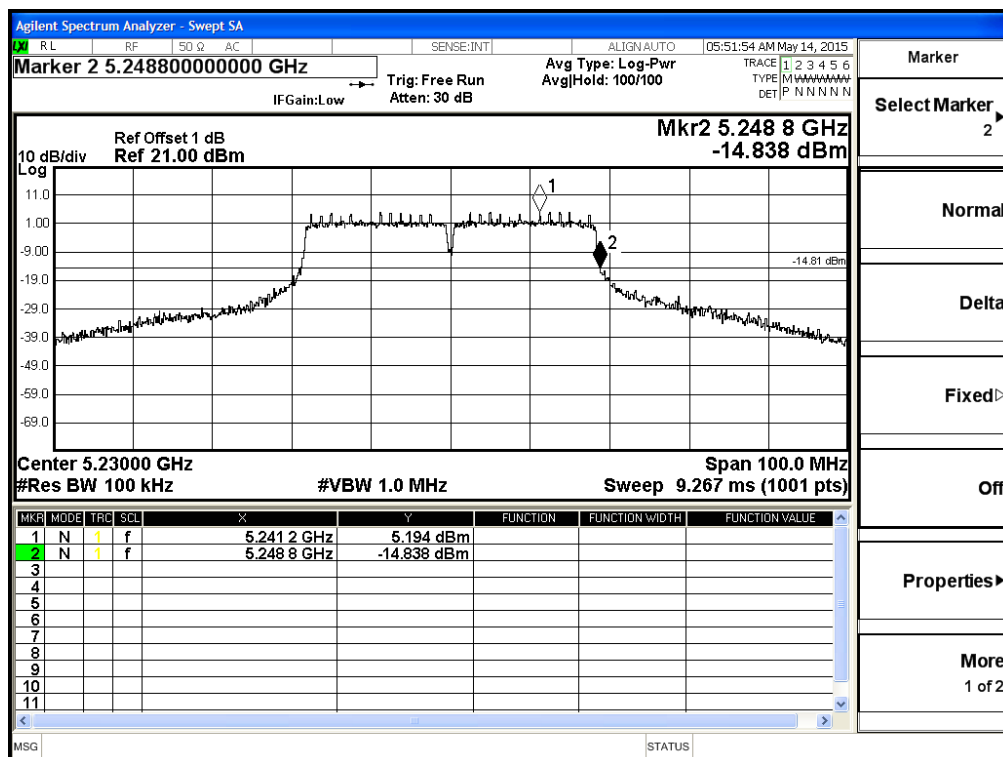


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps)-Channel 46 (Internal Antenna)

Chain B

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5230	5248.80	<5250	PASS

NOTE: Accordance with 15.215 requirement.

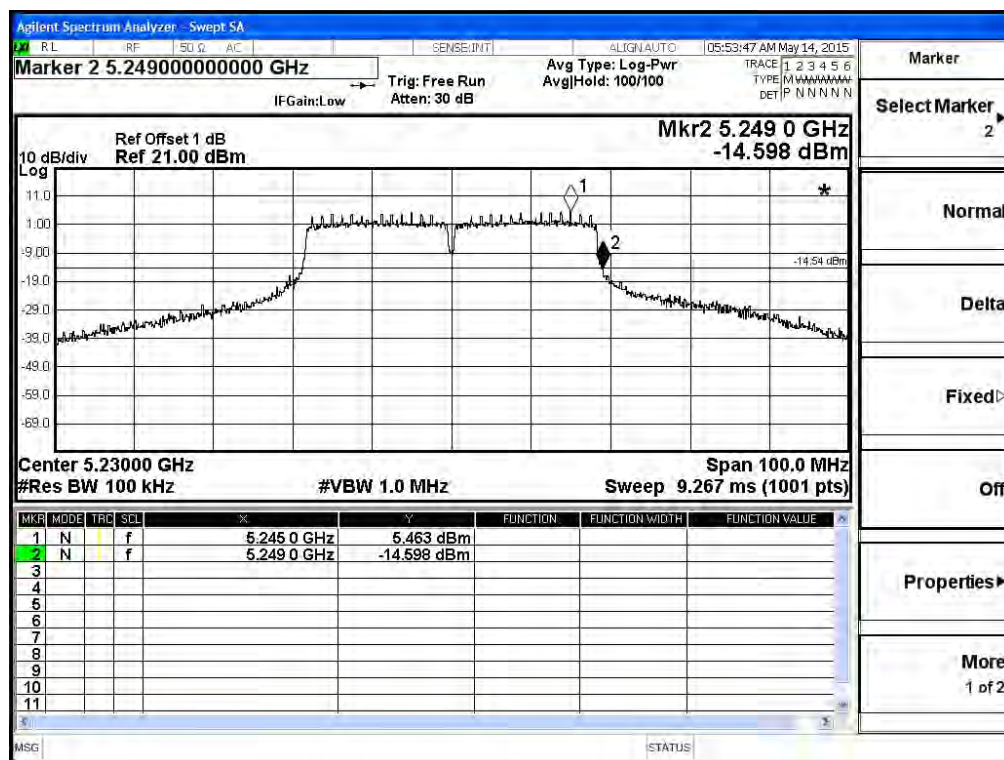


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps)-Channel 46 (Internal Antenna)

Chain C

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5230	5249.00	<5250	PASS

NOTE: Accordance with 15.215 requirement.



Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 151 (Internal Antenna)

RF Radiated Measurement :

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-62.380	-43.736	-16.736	-27.000	Pass
Horizontal	5725.000	18.649	-61.450	-42.801	-25.801	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-57.580	-38.284	-11.284	-27.000	Pass
Vertical	5725.000	19.372	-53.330	-33.958	-16.958	-17.000	Pass

Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 159 (Internal Antenna)

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-72.250	-52.958	-35.958	-17.000	Pass
Horizontal	5860.000	19.415	-73.810	-54.395	-27.395	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-68.180	-47.668	-30.668	-17.000	Pass
Vertical	5860.000	20.635	-69.010	-48.375	-21.375	-27.000	Pass

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps) -Channel 42 (5210MHz) (Internal Antenna)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
42 (Peak)	5138.600	3.380	53.903	57.283	74.00	54.00	Pass
42 (Peak)	5150.000	3.340	53.333	56.673	74.00	54.00	Pass
42 (Peak)	5196.600	3.167	93.310	96.477	--	--	--
42 (Average)	5150.000	3.340	40.668	44.008	74.00	54.00	Pass
42 (Average)	5196.400	3.167	77.279	80.447	--	--	--

Figure Channel 42: Horizontal (Peak)

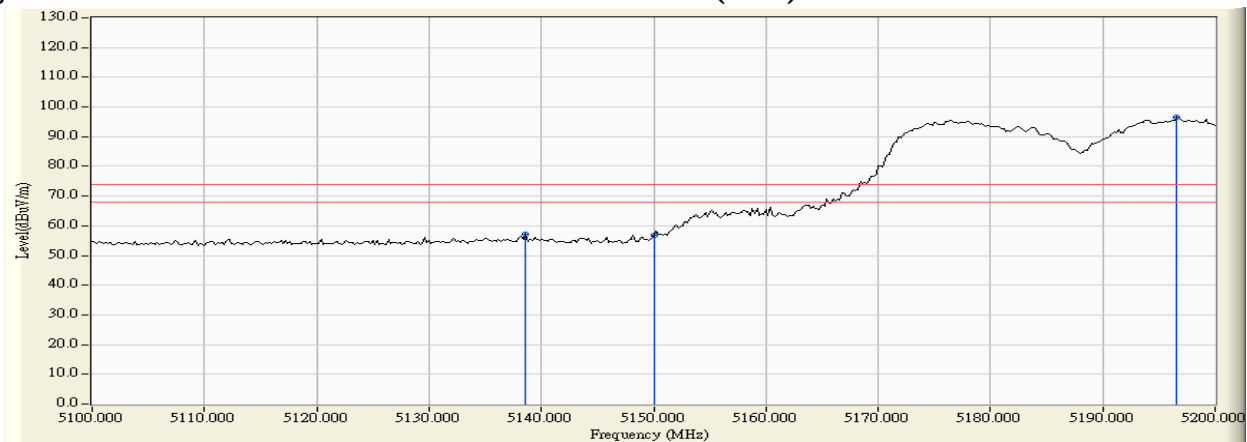
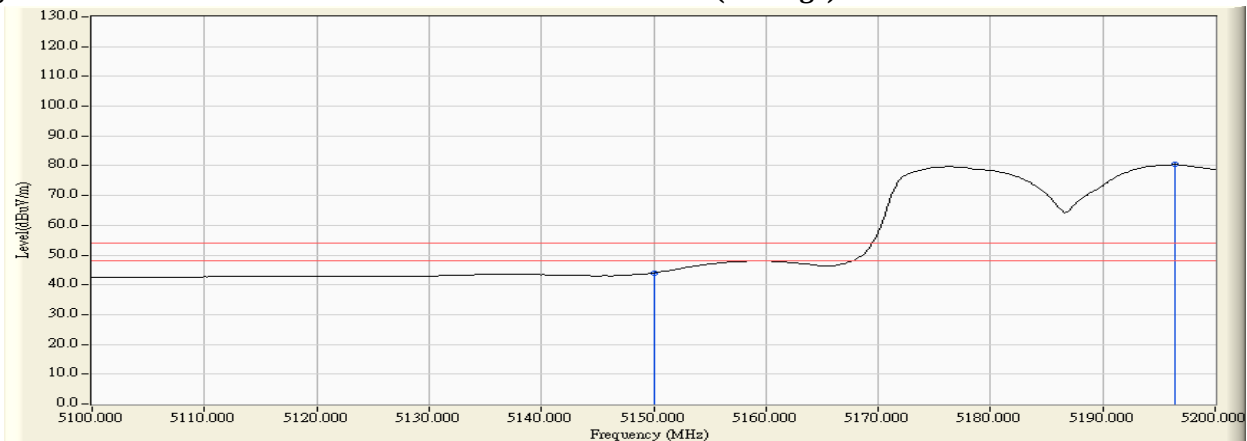


Figure Channel 42: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps) -Channel 42 (5210MHz) (Internal Antenna)

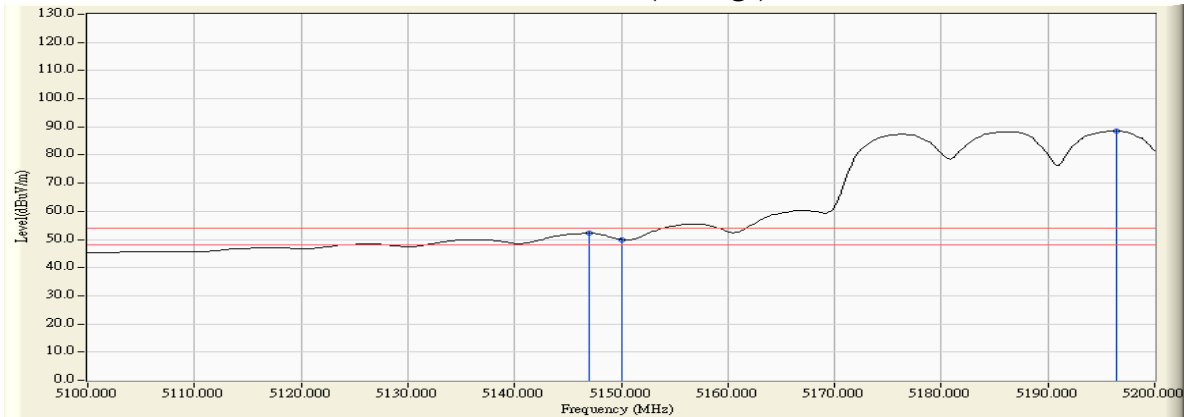
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
42 (Peak)	5146.600	5.251	65.245	70.496	74.00	54.00	Pass
42 (Peak)	5150.000	5.260	58.561	63.821	74.00	54.00	Pass
42 (Peak)	5198.800	5.383	100.653	106.036	--	--	--
42 (Average)	5147.000	5.252	46.920	52.172	74.00	54.00	Pass
42 (Average)	5150.000	5.260	44.661	49.921	74.00	54.00	Pass
42 (Average)	5196.400	5.378	83.231	88.609	--	--	--

Figure Channel 42: Vertical (Peak)



Figure Channel 42: Vertical (Average)



Note:

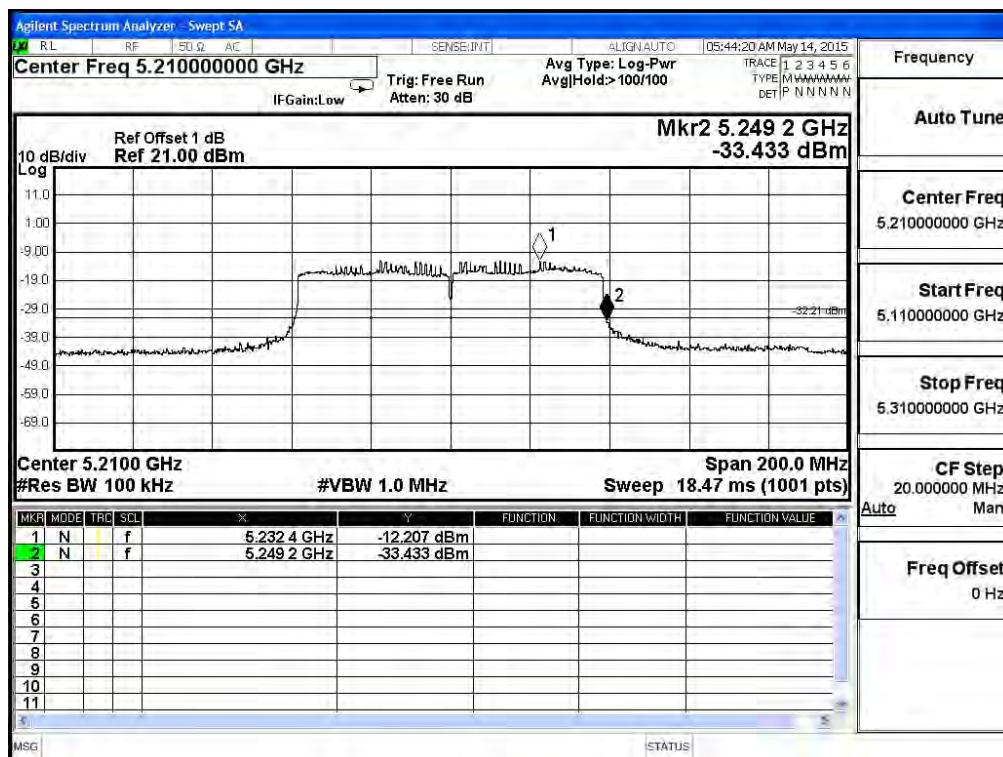
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps) -Channel 42 (Internal Antenna)

Chain A

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5210	5249.20	<5250	PASS

NOTE: Accordance with 15.215 requirement.

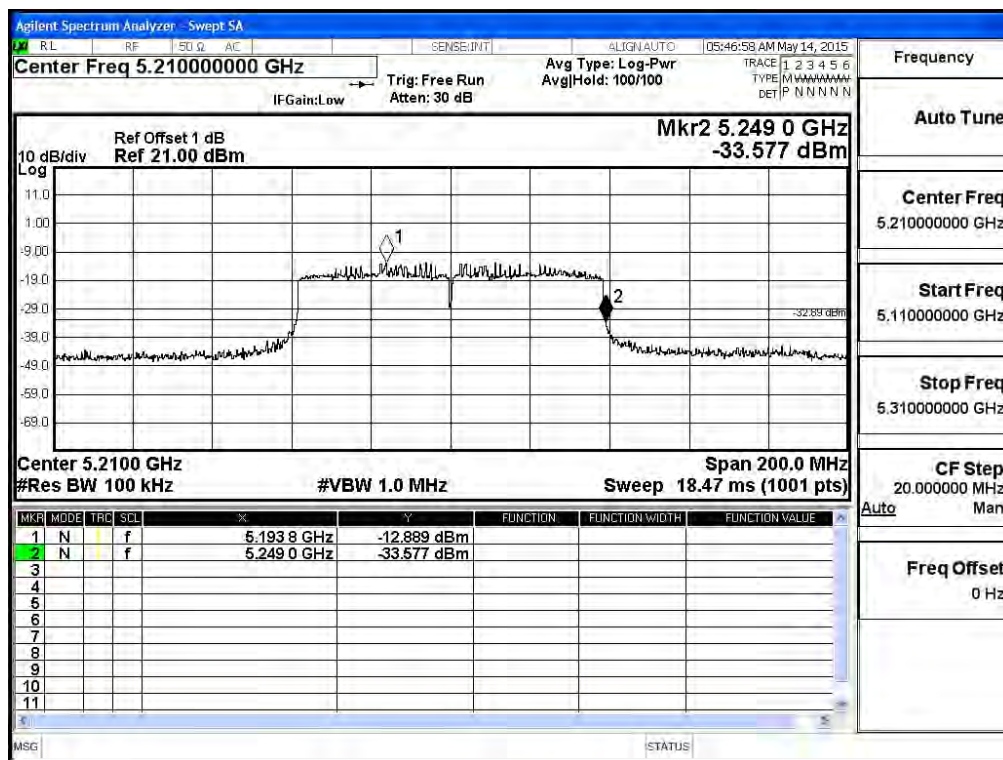


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps)-Channel 42 (Internal Antenna)

Chain B

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5210	5249.00	<5250	PASS

NOTE: Accordance with 15.215 requirement.

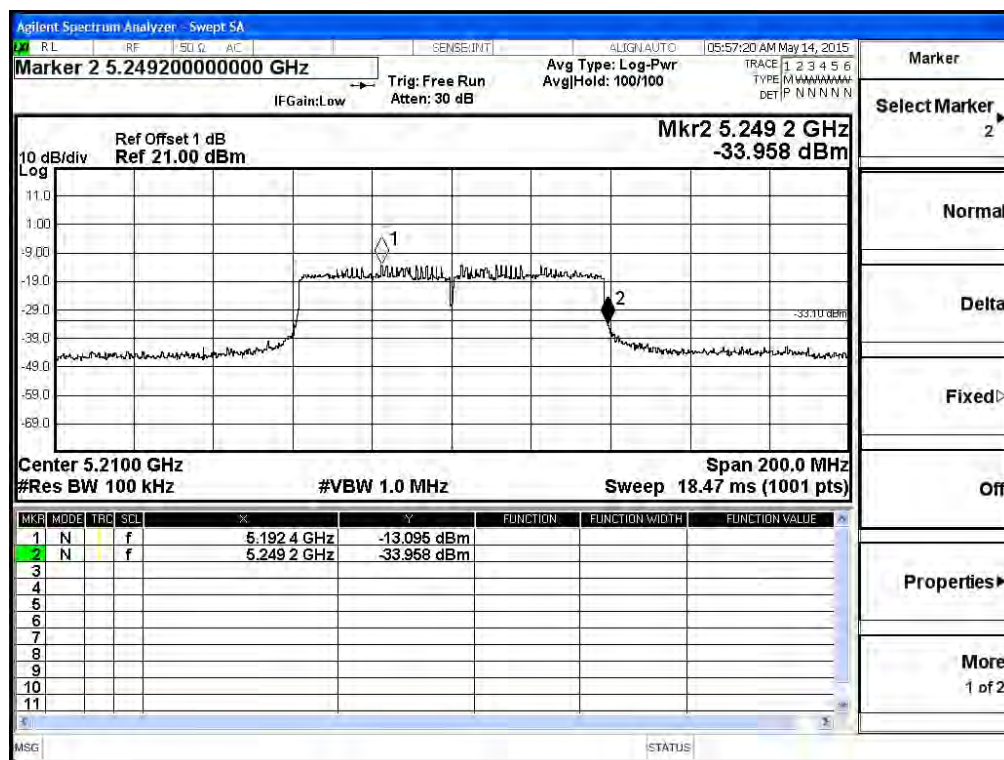


Product : Access Point/Sensor
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps)-Channel 42 (Internal Antenna)

Chain C

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5210	5249.20	<5250	PASS

NOTE: Accordance with 15.215 requirement.



Product : Access Point/Sensor
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps)-Channel 155 (Internal Antenna)

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-63.280	-44.636	-17.636	-27.000	Pass
Horizontal	5725.000	18.649	-64.660	-46.011	-29.011	-17.000	Pass
Horizontal	5850.000	19.292	-66.350	-47.058	-30.058	-17.000	Pass
Horizontal	5860.000	19.415	-69.160	-49.745	-22.745	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-58.370	-39.074	-12.074	-27.000	Pass
Vertical	5725.000	19.372	-57.080	-37.708	-20.708	-17.000	Pass
Vertical	5850.000	20.512	-64.330	-43.818	-26.818	-17.000	Pass
Vertical	5860.000	20.635	-63.540	-42.905	-15.905	-27.000	Pass

7. Occupied Bandwidth

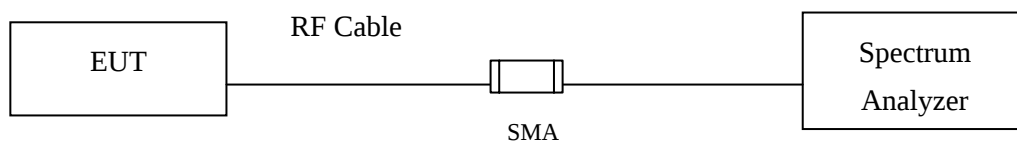
7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

7.2. Test Setup



7.3. Limits

For the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz

7.4. Test Procedure

The EUT was setup to ANSI C63.10, 2009; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.5. Uncertainty

± 150Hz

7.6. Test Result of Occupied Bandwidth

Product : Access Point/Sensor
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (External Antenna)

Channel No.	Frequency (MHz)	Chain (dBm)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	A	16400	>500	Pass
157	5785	A	16500	>500	Pass
165	5825	A	16400	>500	Pass
149	5745	B	16400	>500	Pass
157	5785	B	16450	>500	Pass
165	5825	B	16400	>500	Pass
149	5745	C	16400	>500	Pass
157	5785	C	16500	>500	Pass
165	5825	C	16450	>500	Pass

Figure Channel 149: (Chain A)

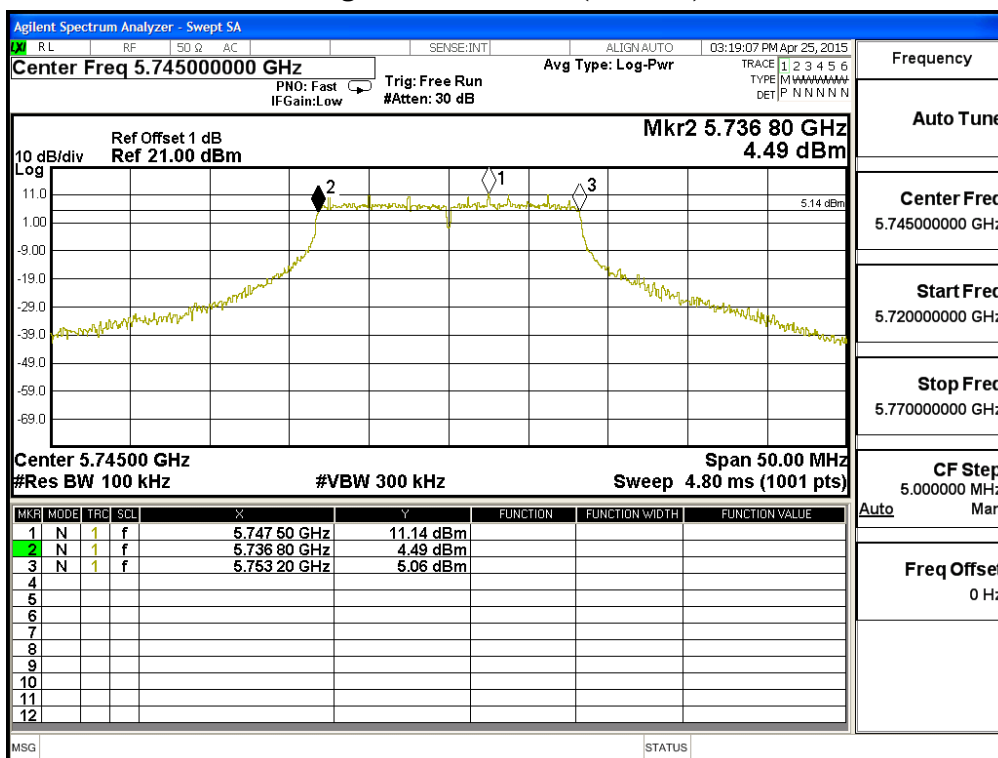


Figure Channel 157: (Chain A)

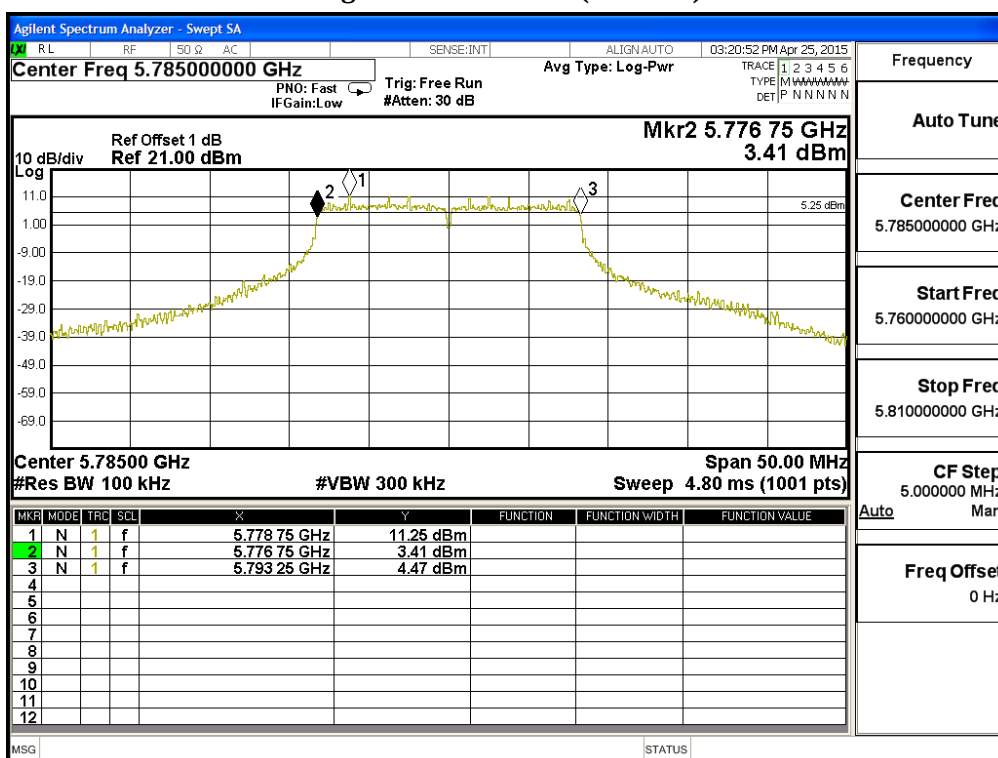


Figure Channel 165: (Chain A)

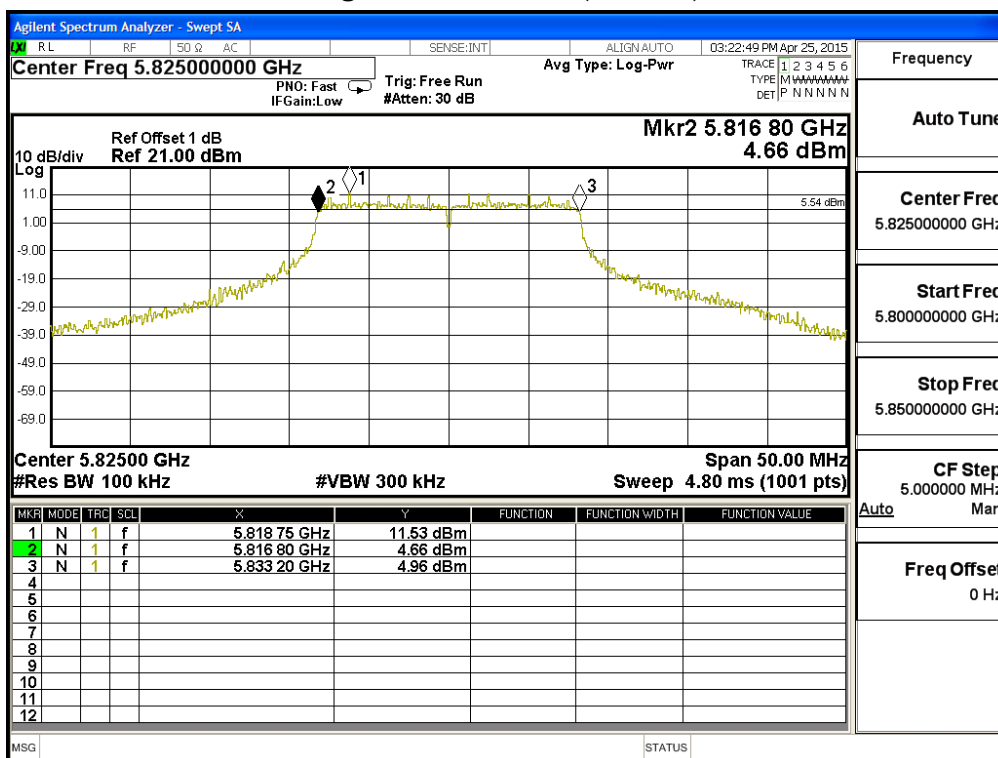


Figure Channel 149: (Chain B)

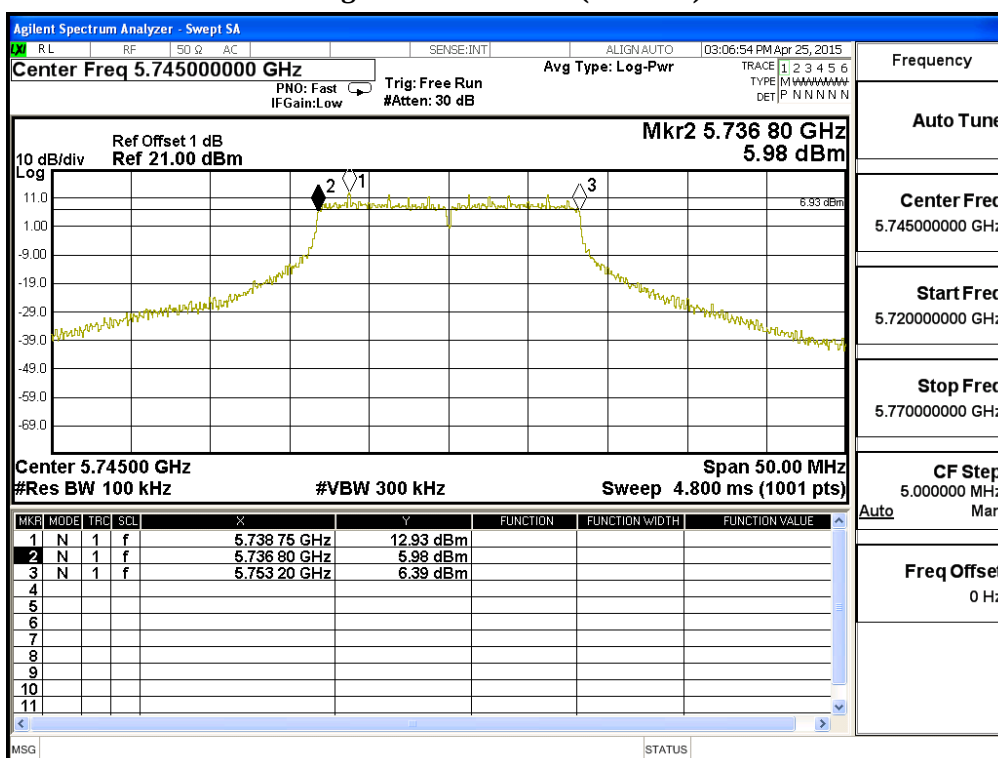


Figure Channel 157: (Chain B)

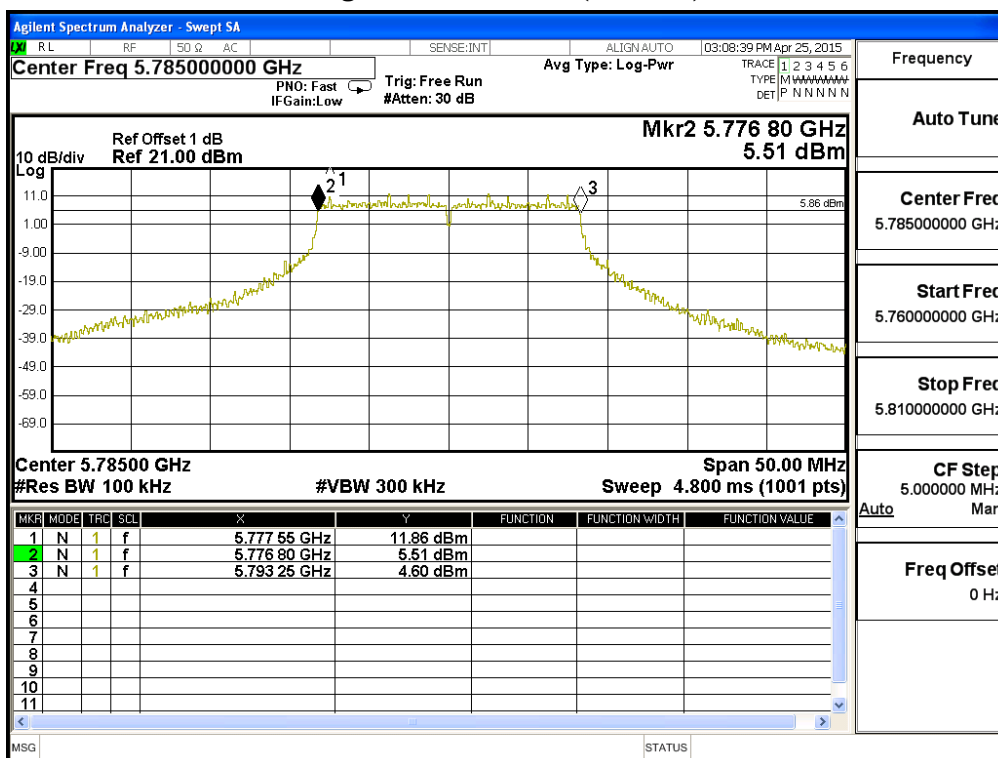


Figure Channel 165: (Chain B)

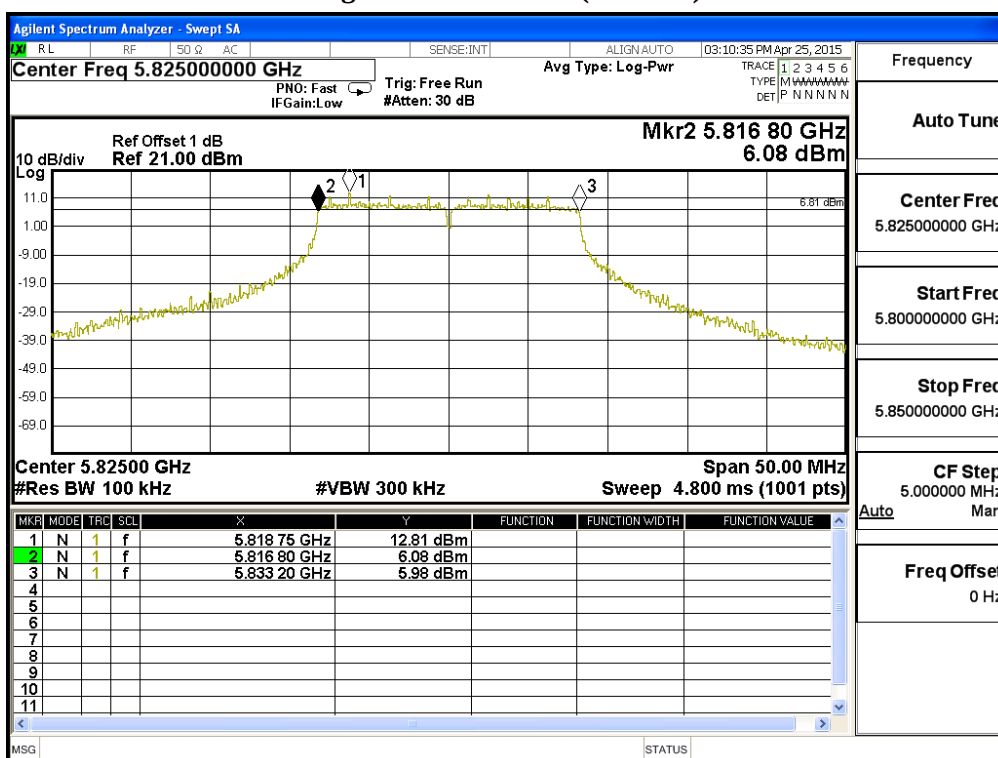


Figure Channel 149: (Chain C)

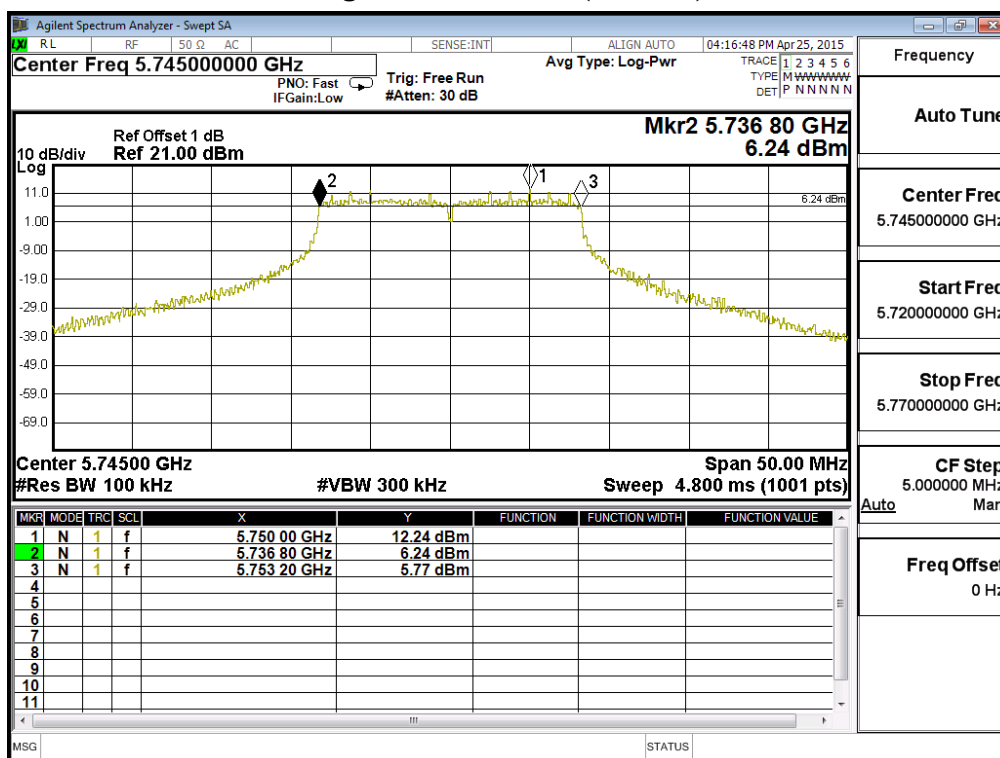


Figure Channel 157: (Chain C)

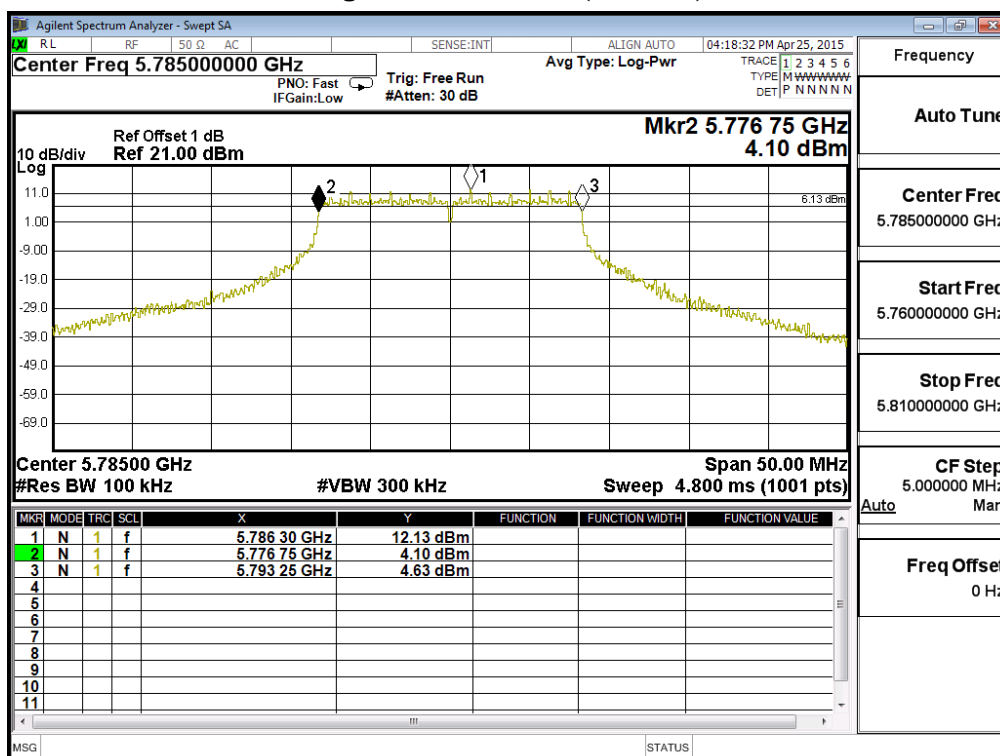
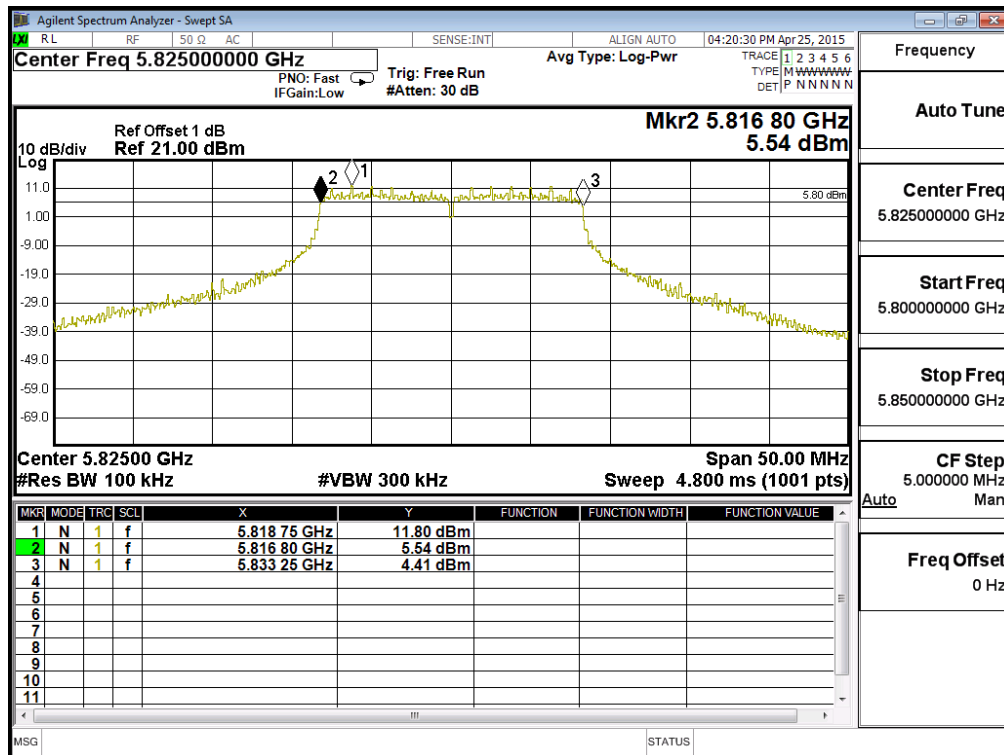


Figure Channel 165: (Chain C)



Product : Access Point/Sensor
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) (External Antenna)

Channel No.	Frequency (MHz)	Chain (dBm)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	A	17650	>500	Pass
157	5785	A	17650	>500	Pass
165	5825	A	17650	>500	Pass
149	5745	B	17400	>500	Pass
157	5785	B	17600	>500	Pass
165	5825	B	17600	>500	Pass
149	5745	C	17650	>500	Pass
157	5785	C	17650	>500	Pass
165	5825	C	17700	>500	Pass

Figure Channel 149: (Chain A)

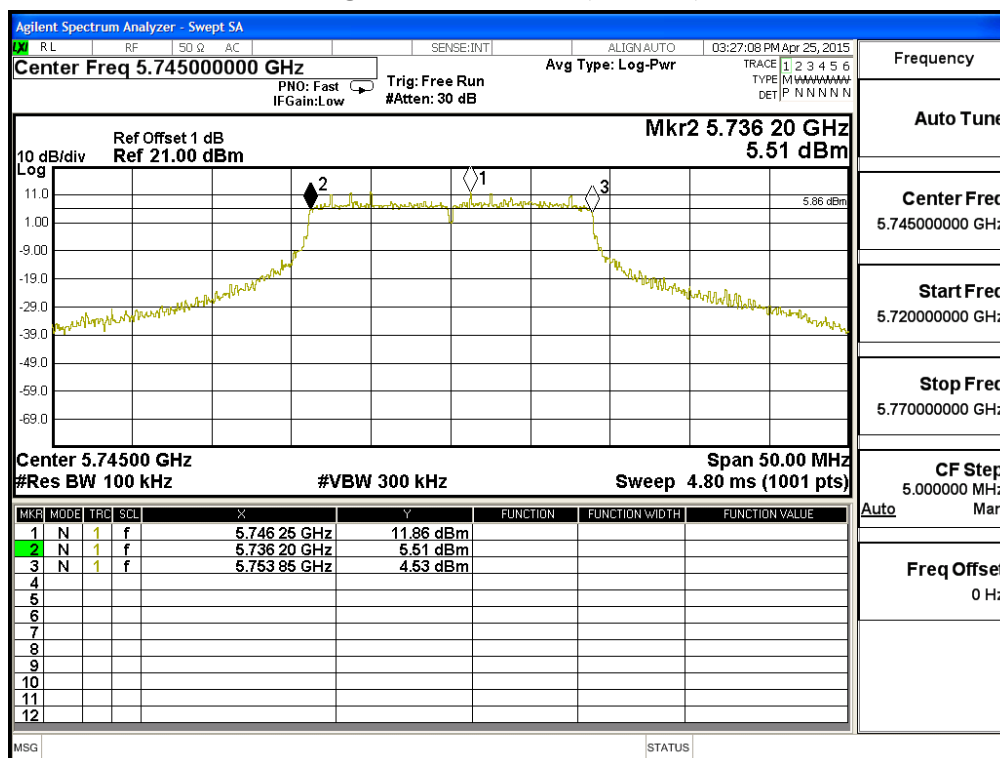


Figure Channel 157: (Chain A)

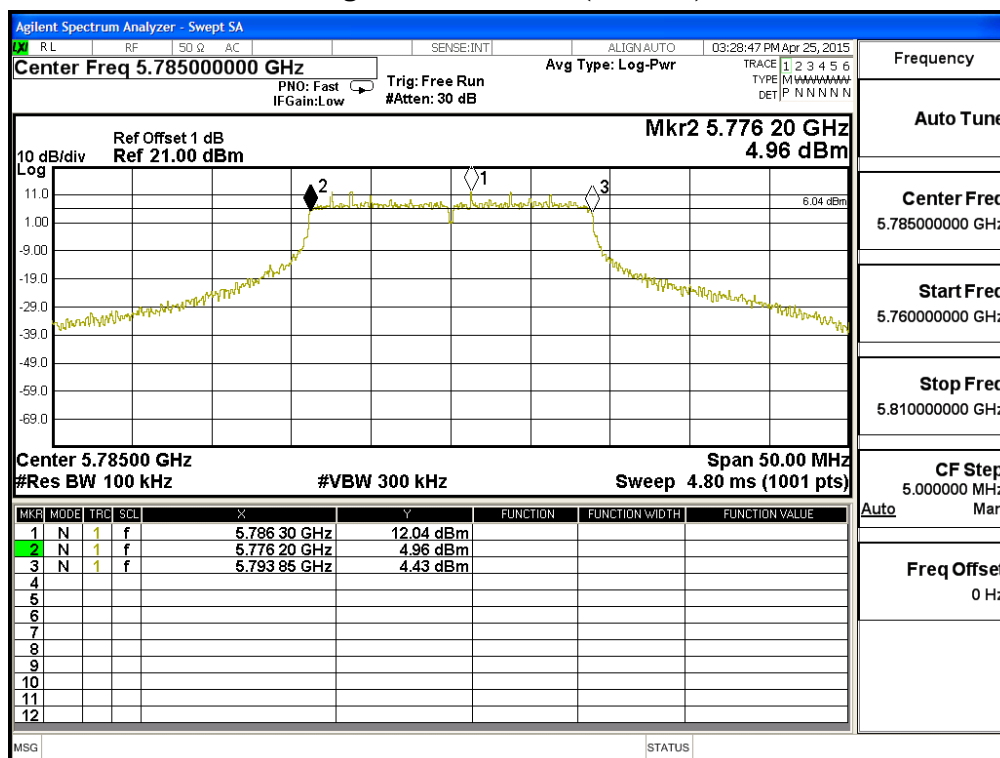


Figure Channel 165: (Chain A)

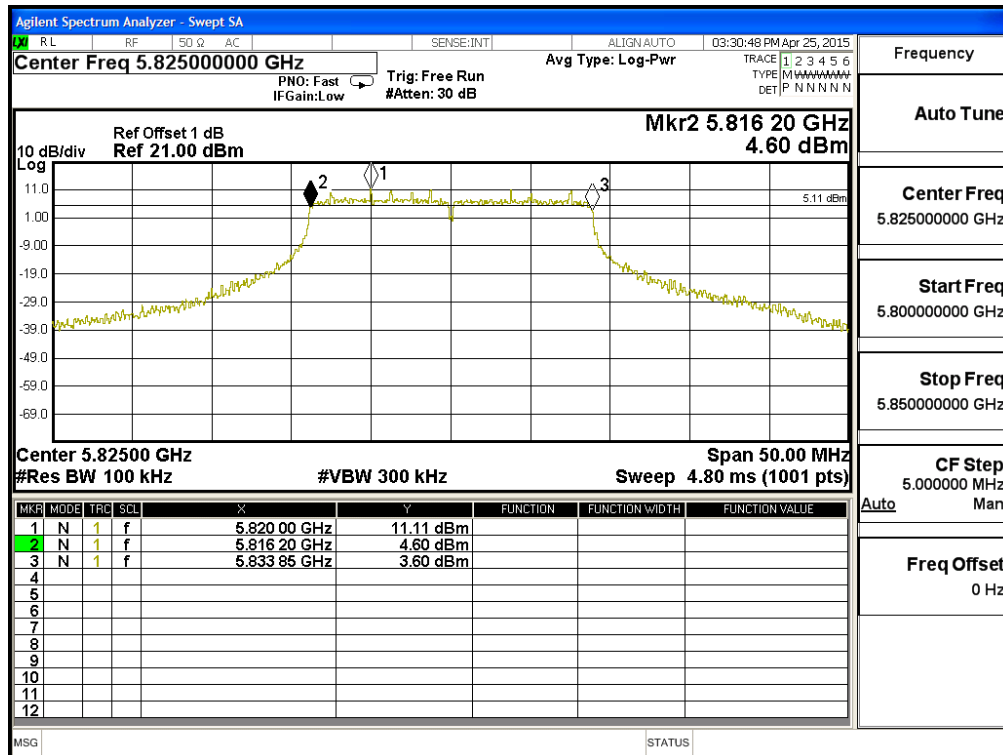


Figure Channel 149: (Chain B)

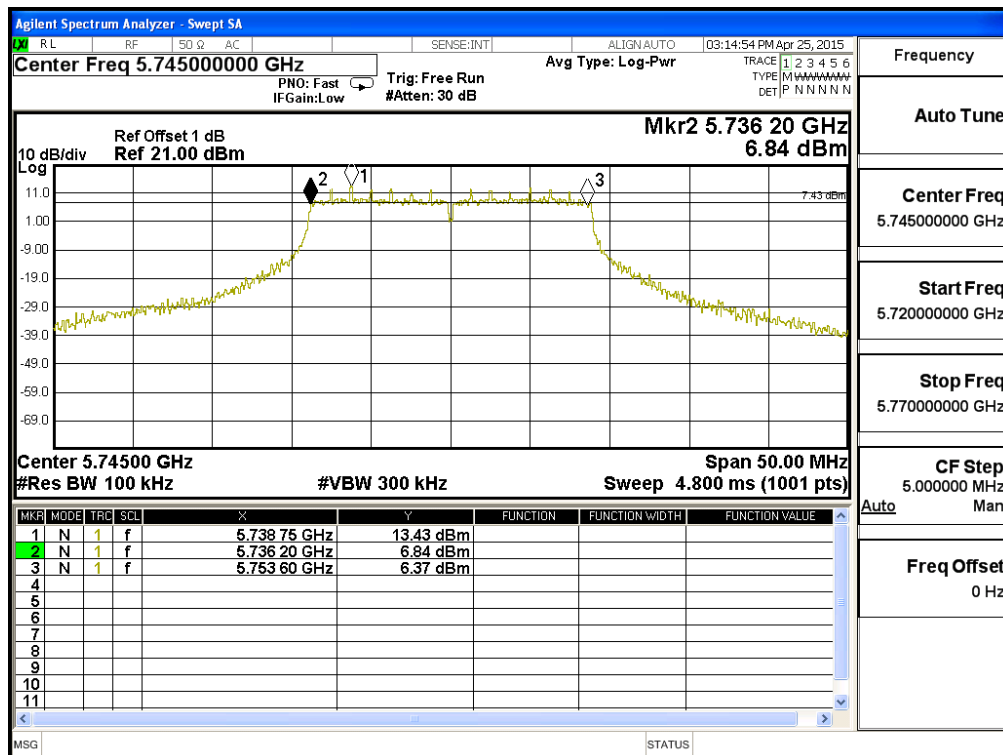


Figure Channel 157: (Chain B)

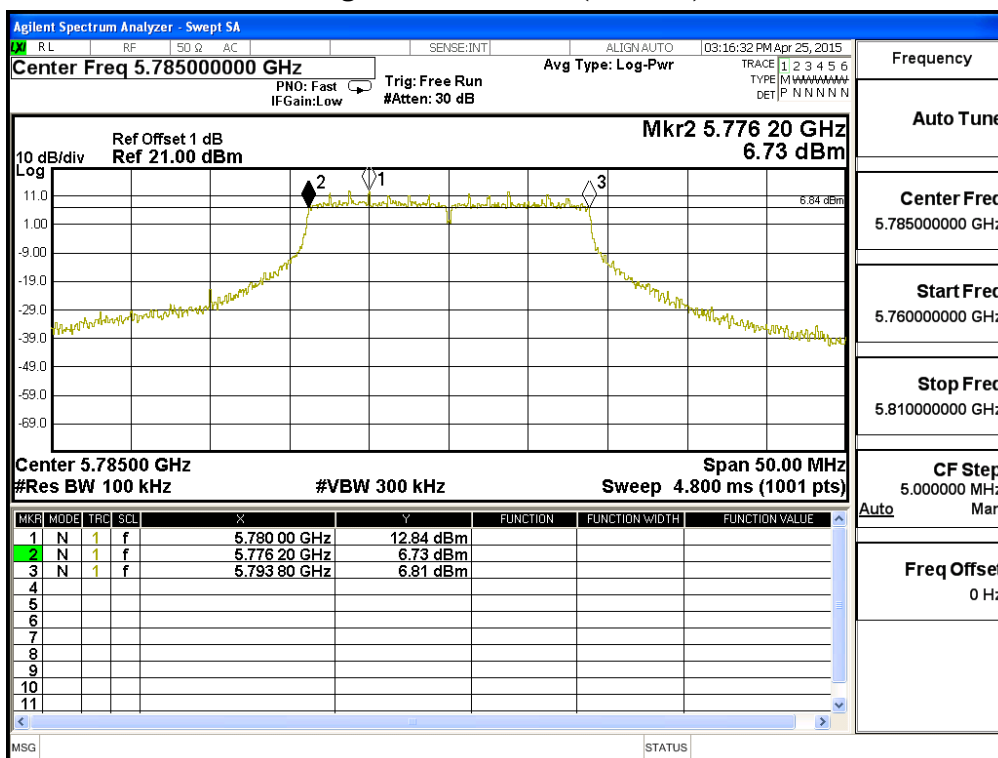


Figure Channel 165: (Chain B)

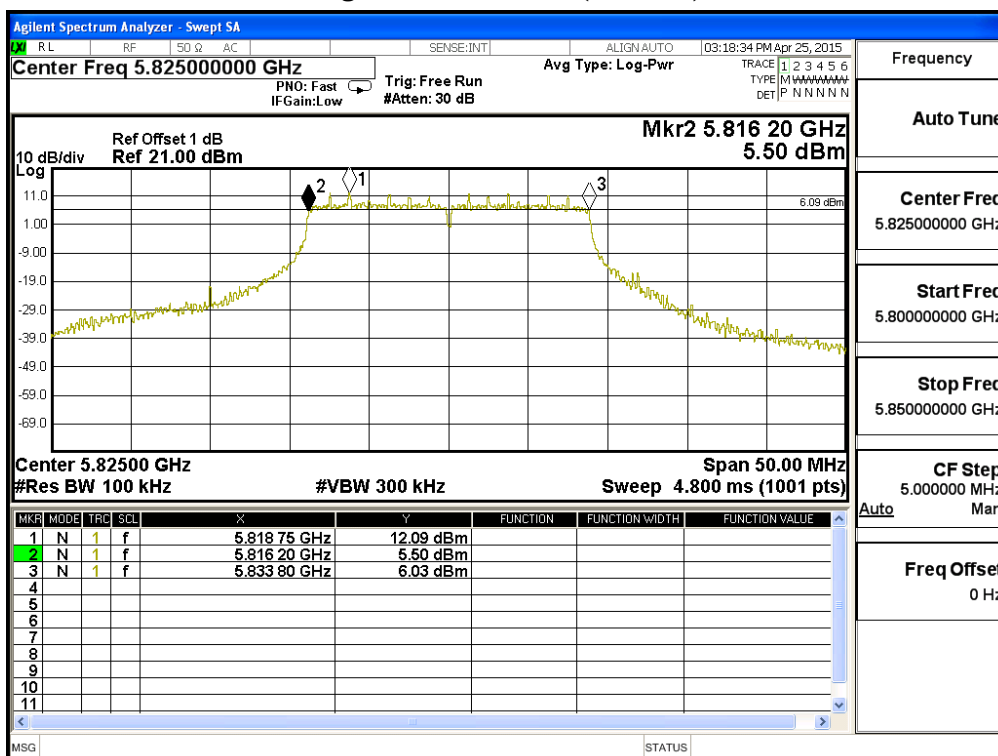


Figure Channel 149: (Chain C)

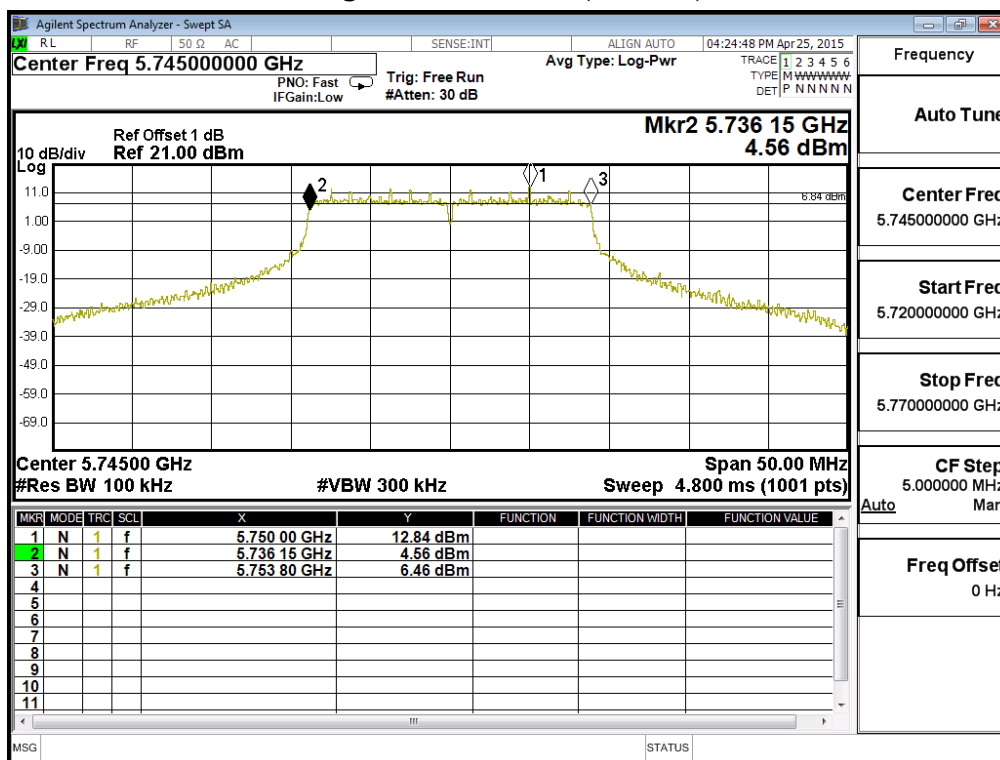


Figure Channel 157: (Chain C)

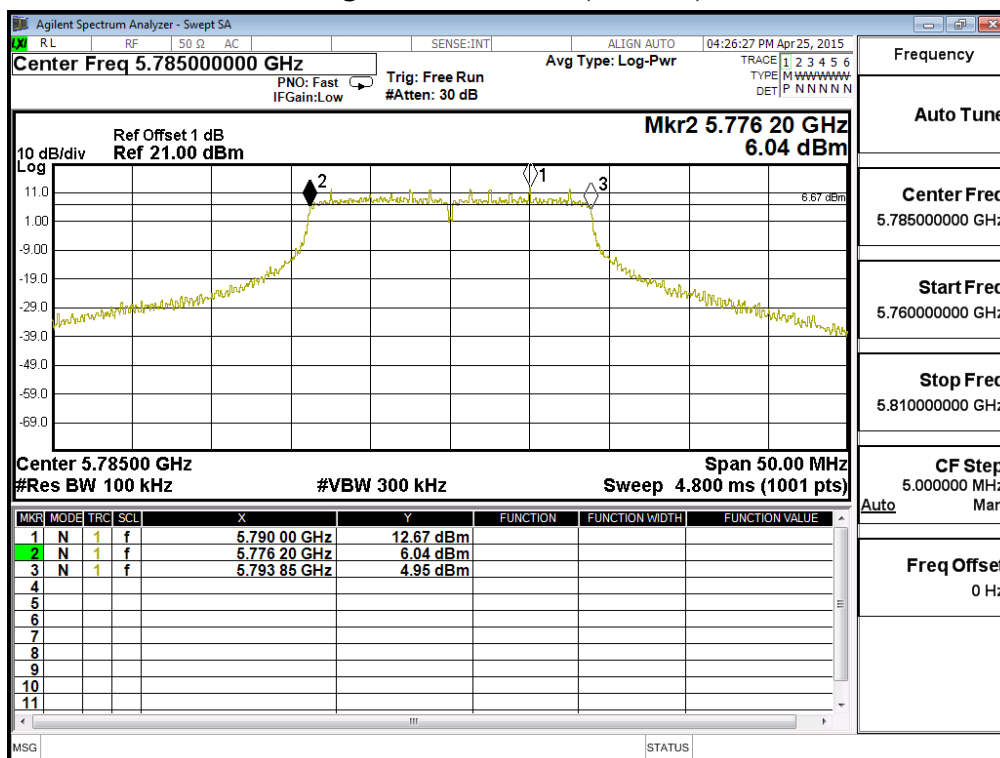
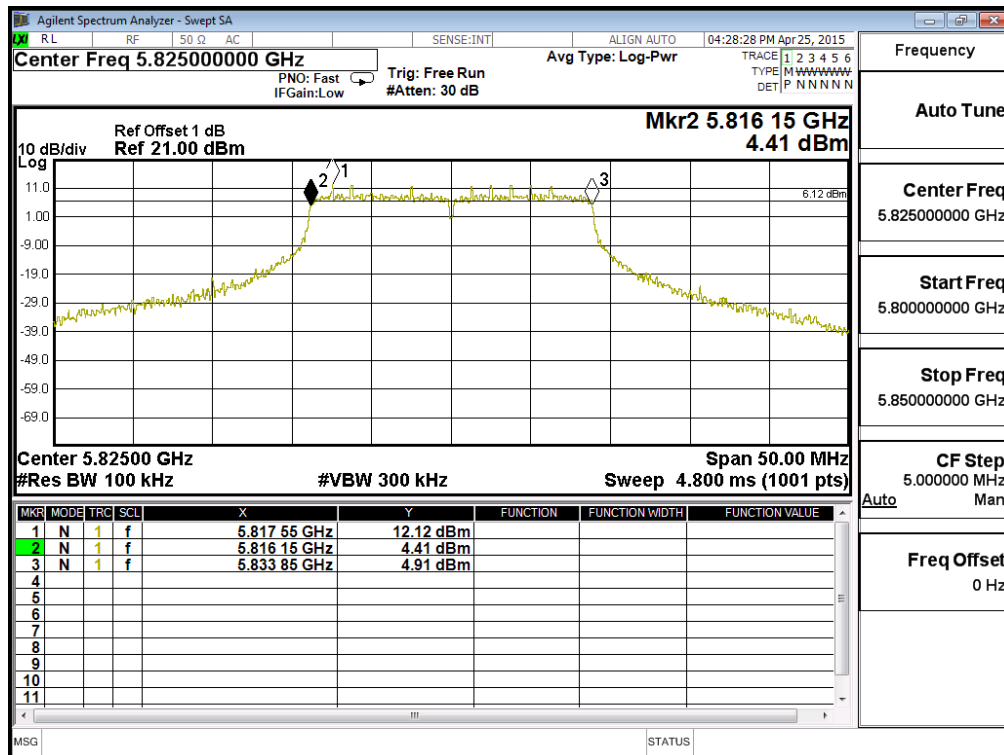


Figure Channel 165: (Chain C)



Product : Access Point/Sensor
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) (External Antenna)

Channel No.	Frequency (MHz)	Chain (dBm)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	A	35700	>500	Pass
159	5795	A	35600	>500	Pass
151	5755	B	36300	>500	Pass
159	5795	B	35500	>500	Pass
151	5755	C	36500	>500	Pass
159	5795	C	36500	>500	Pass

Figure Channel 151: (Chain A)

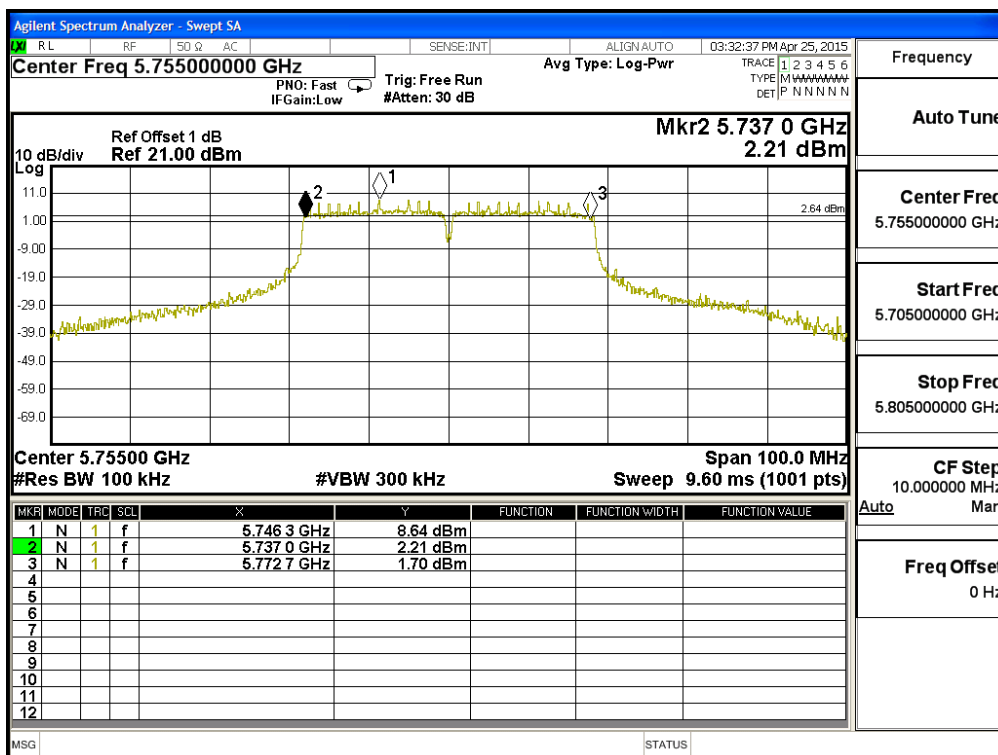


Figure Channel 159: (Chain A)

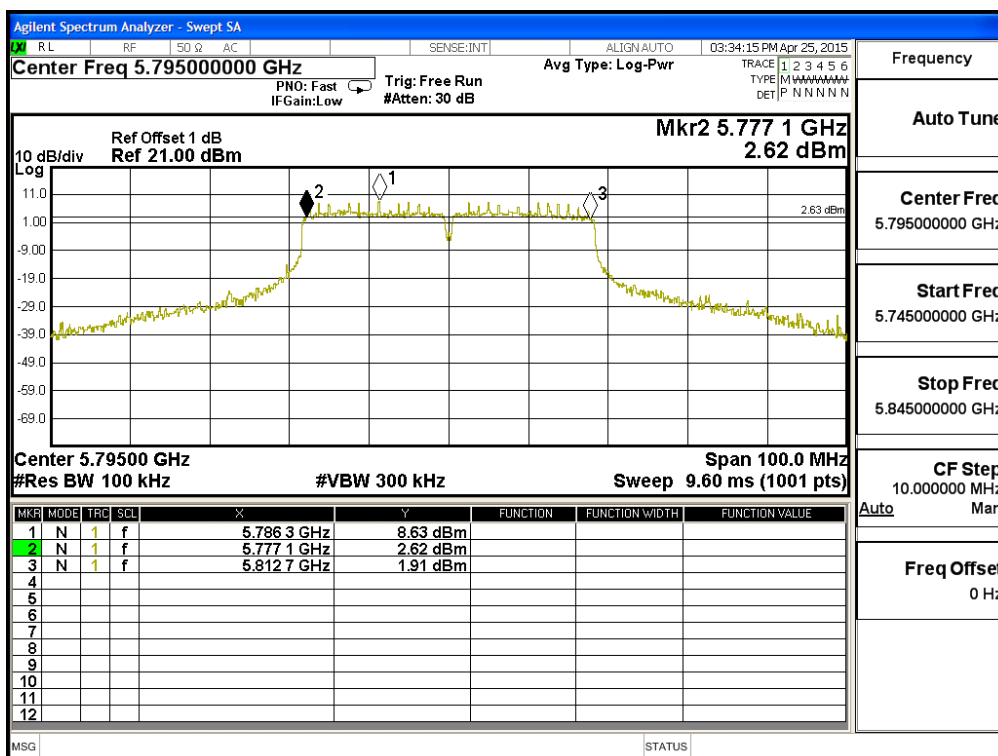


Figure Channel 151: (Chain B)

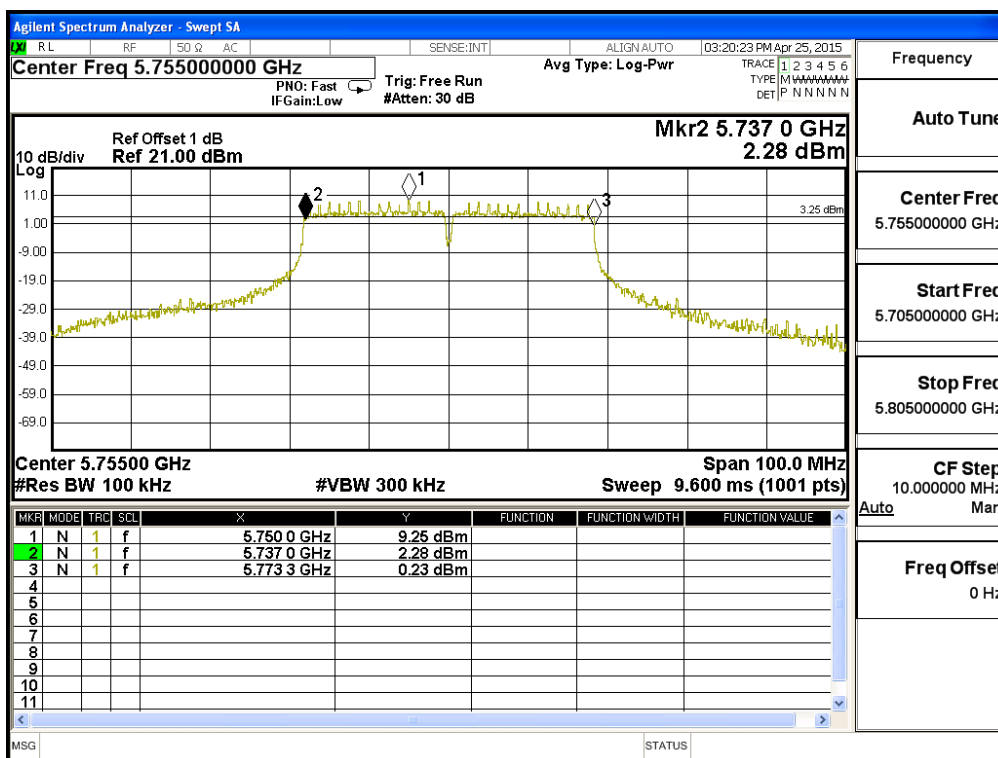


Figure Channel 159: (Chain B)

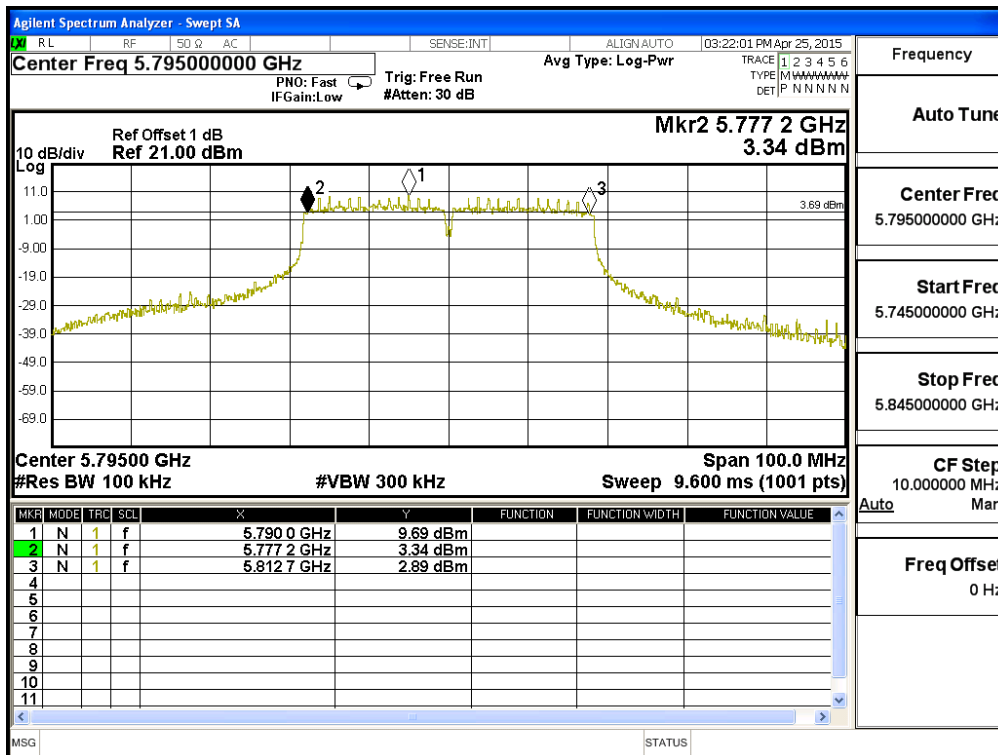


Figure Channel 151: (Chain C)

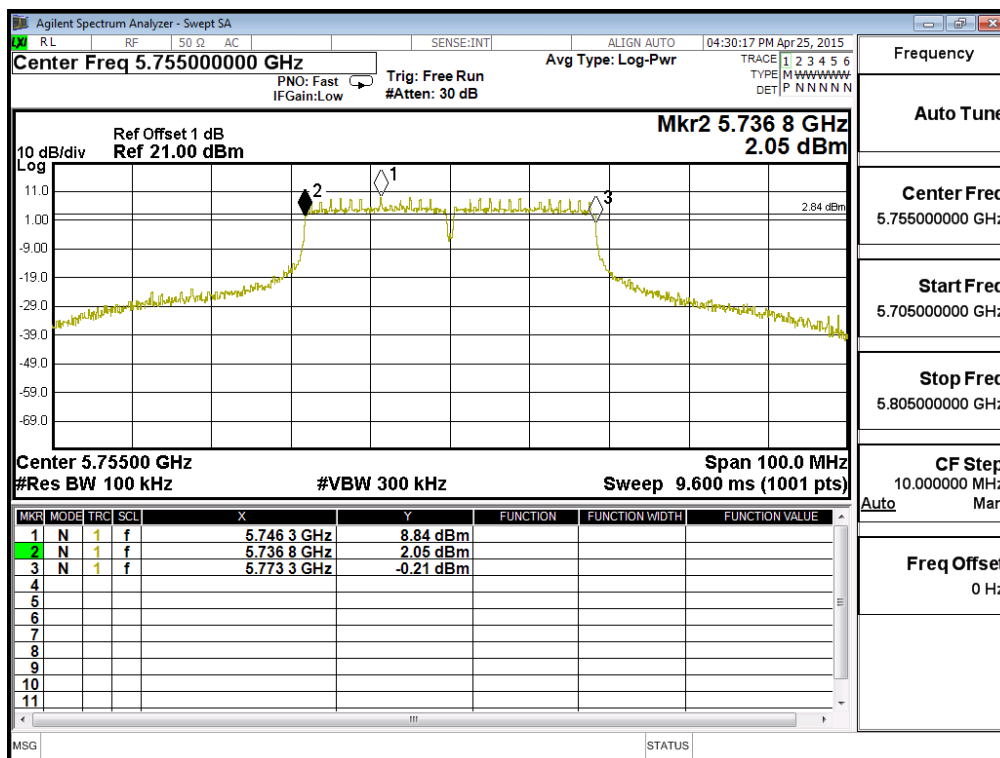
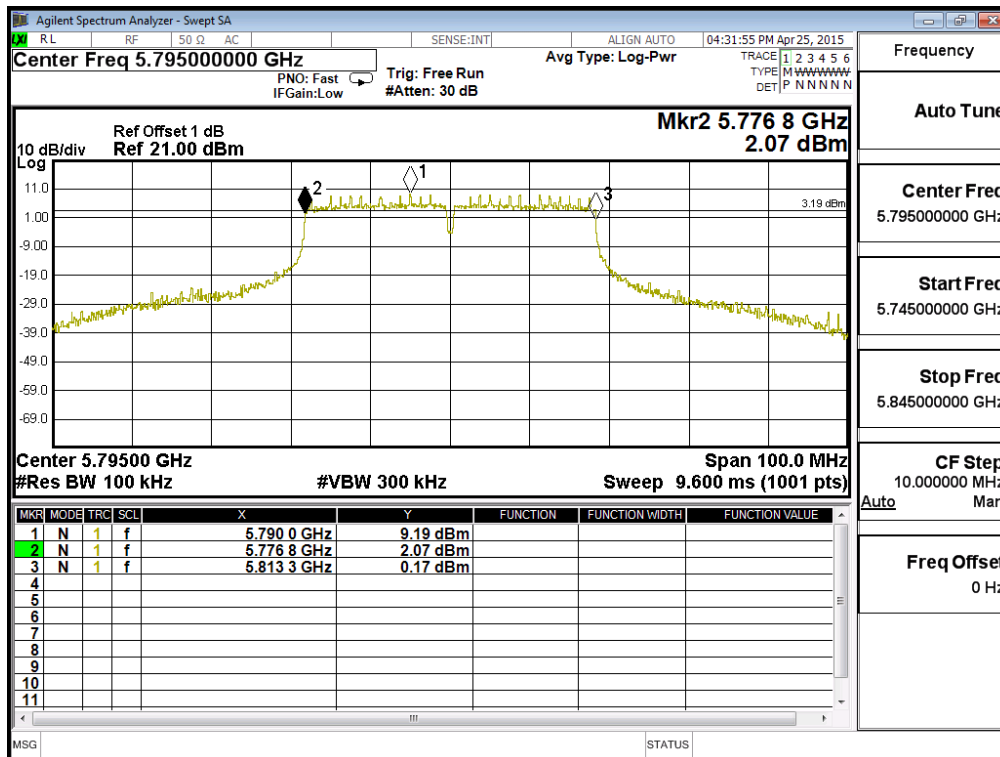


Figure Channel 159: (Chain C)



Product : Access Point/Sensor
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps) (External Antenna)

Channel No.	Frequency (MHz)	Chain (dBm)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	A	75800	>500	Pass
155	5775	B	75900	>500	Pass
155	5775	C	76500	>500	Pass

Figure Channel 155: (Chain A)

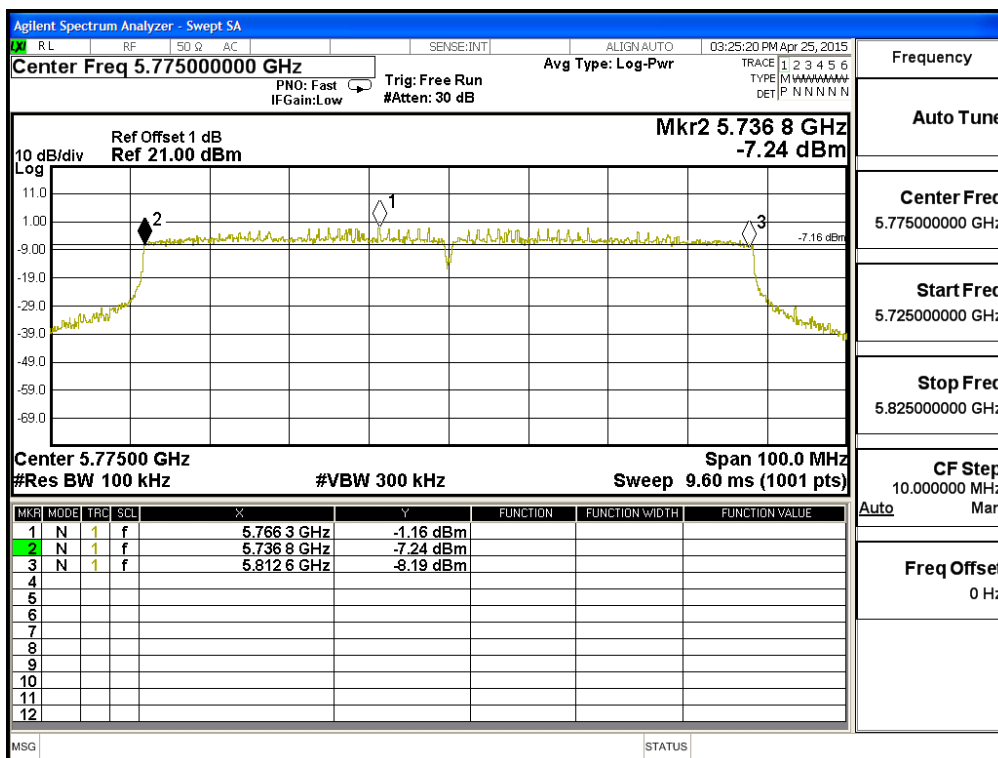


Figure Channel 155: (Chain B)

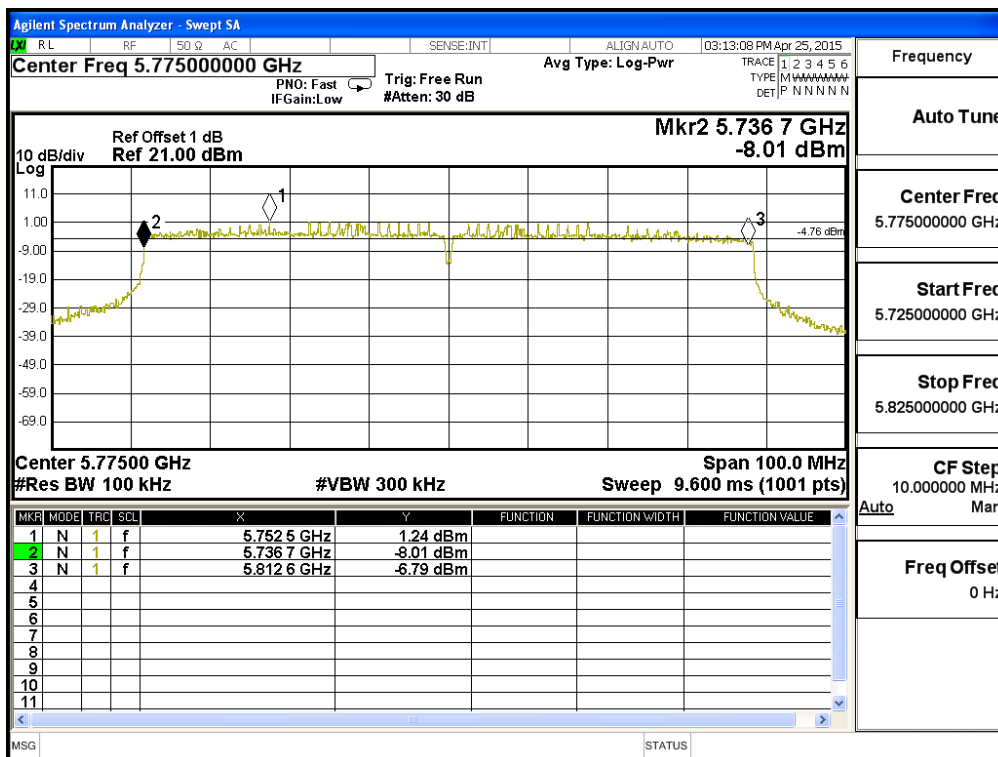
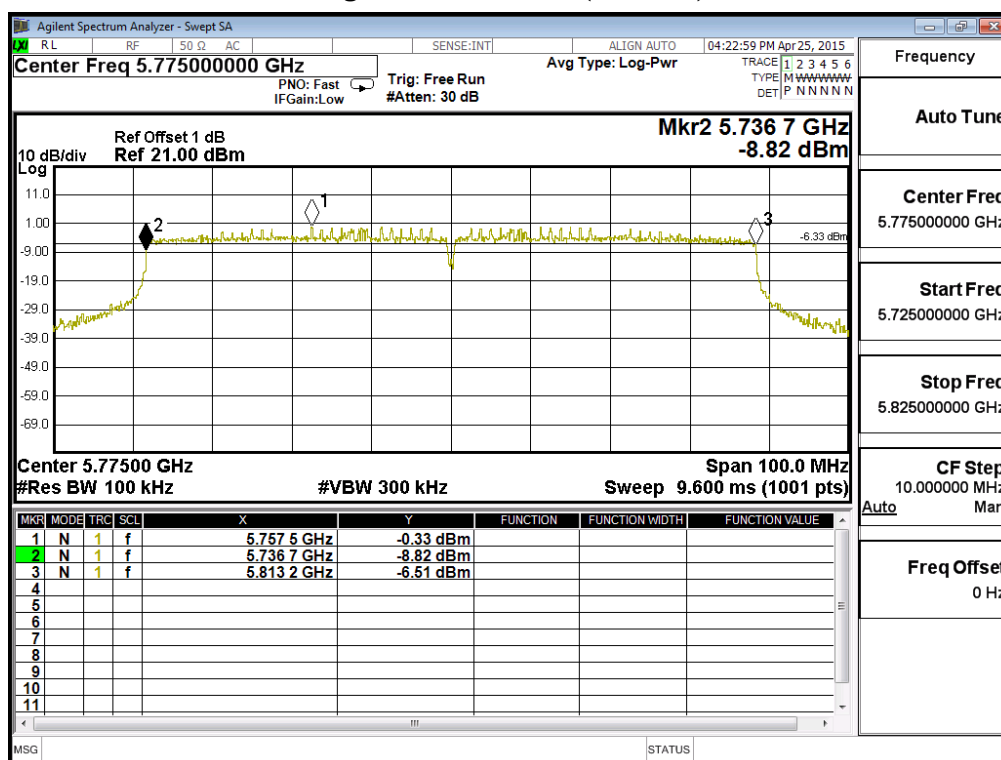


Figure Channel 155: (Chain C)



Product : Access Point/Sensor
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Internal Antenna)

Channel No.	Frequency (MHz)	Chain (dBm)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	A	16450	>500	Pass
157	5785	A	16500	>500	Pass
165	5825	A	16450	>500	Pass
149	5745	B	16450	>500	Pass
157	5785	B	16450	>500	Pass
165	5825	B	16450	>500	Pass
149	5745	C	16450	>500	Pass
157	5785	C	16450	>500	Pass
165	5825	C	16500	>500	Pass

Figure Channel 149: (Chain A)

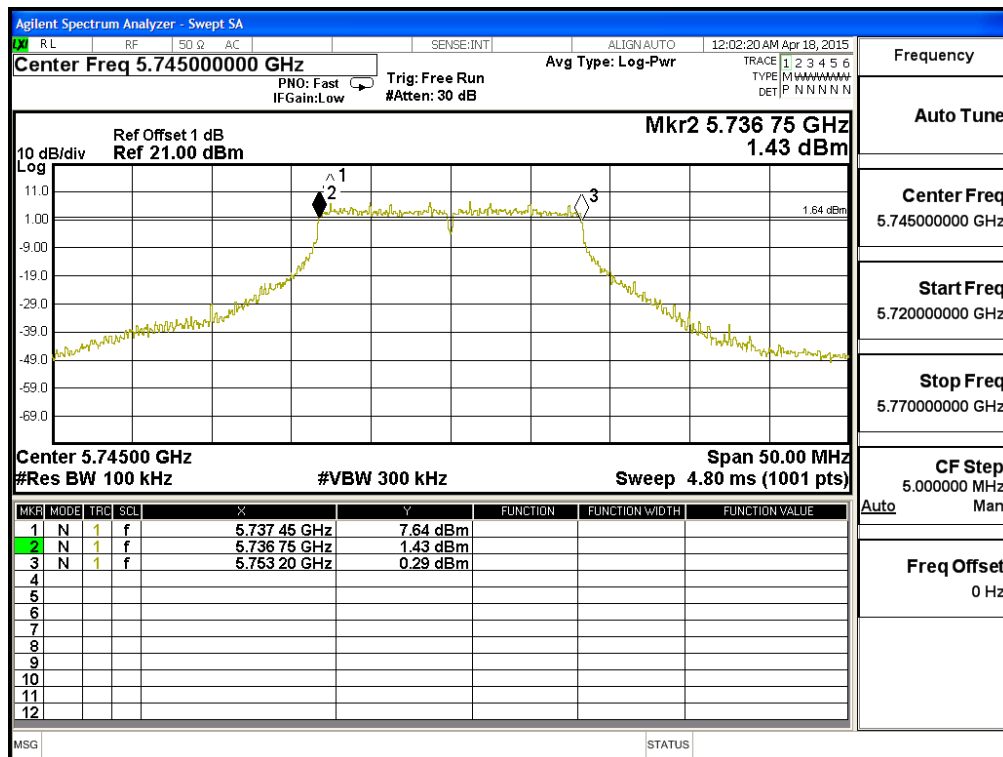


Figure Channel 157: (Chain A)

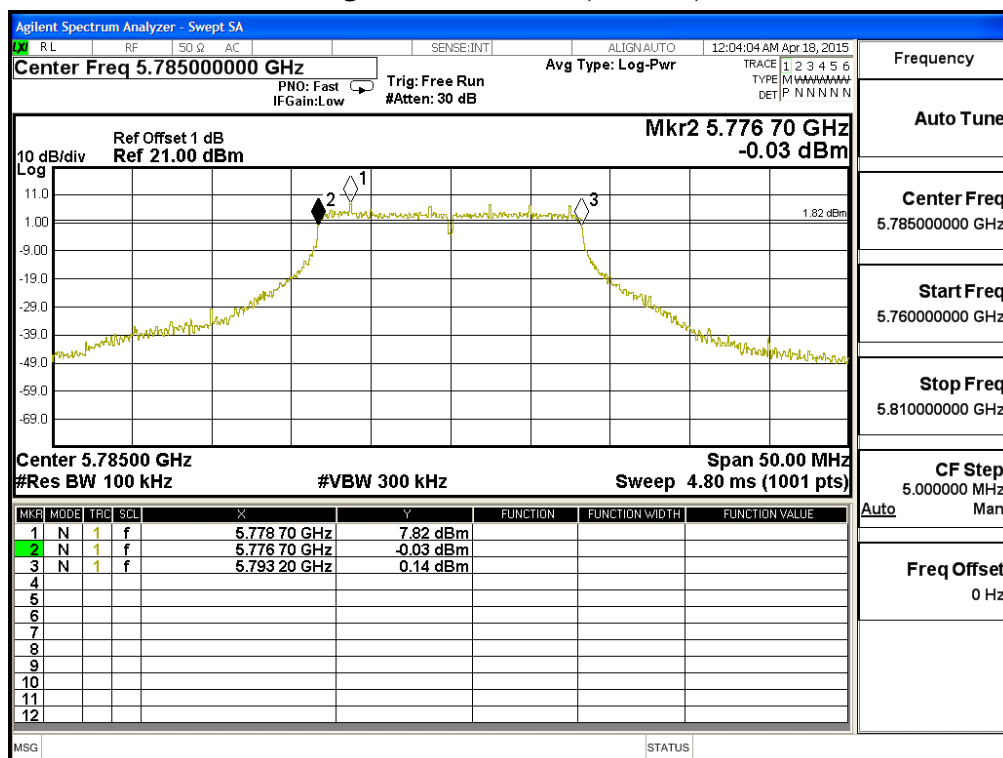


Figure Channel 165: (Chain A)

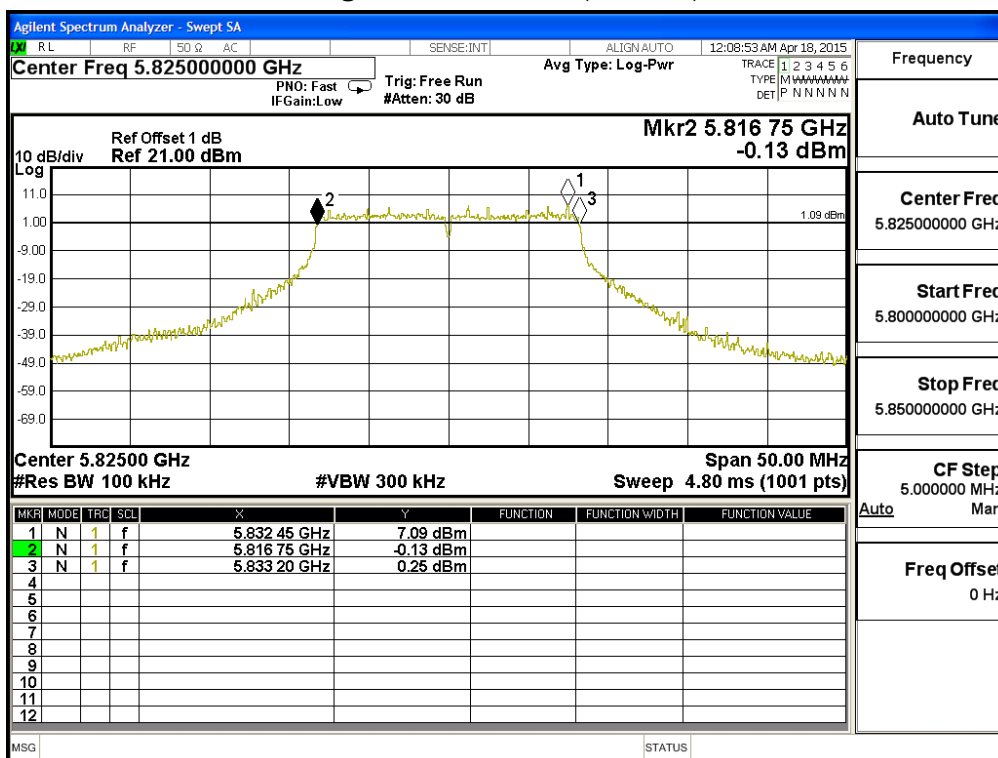


Figure Channel 149: (Chain B)

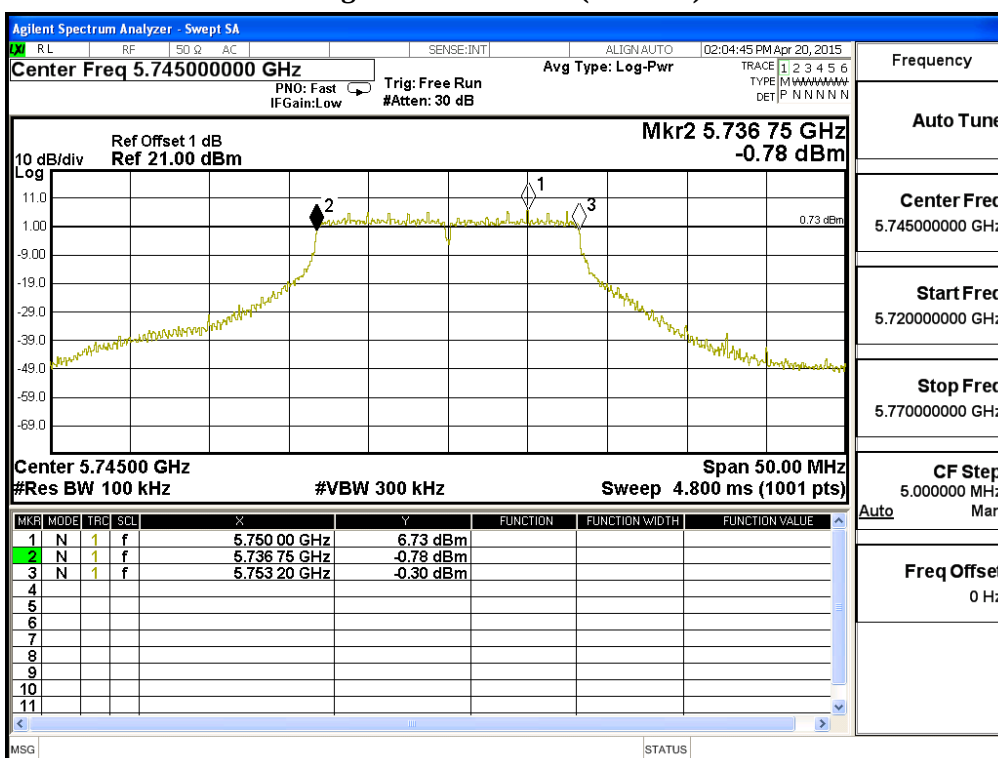


Figure Channel 157: (Chain B)

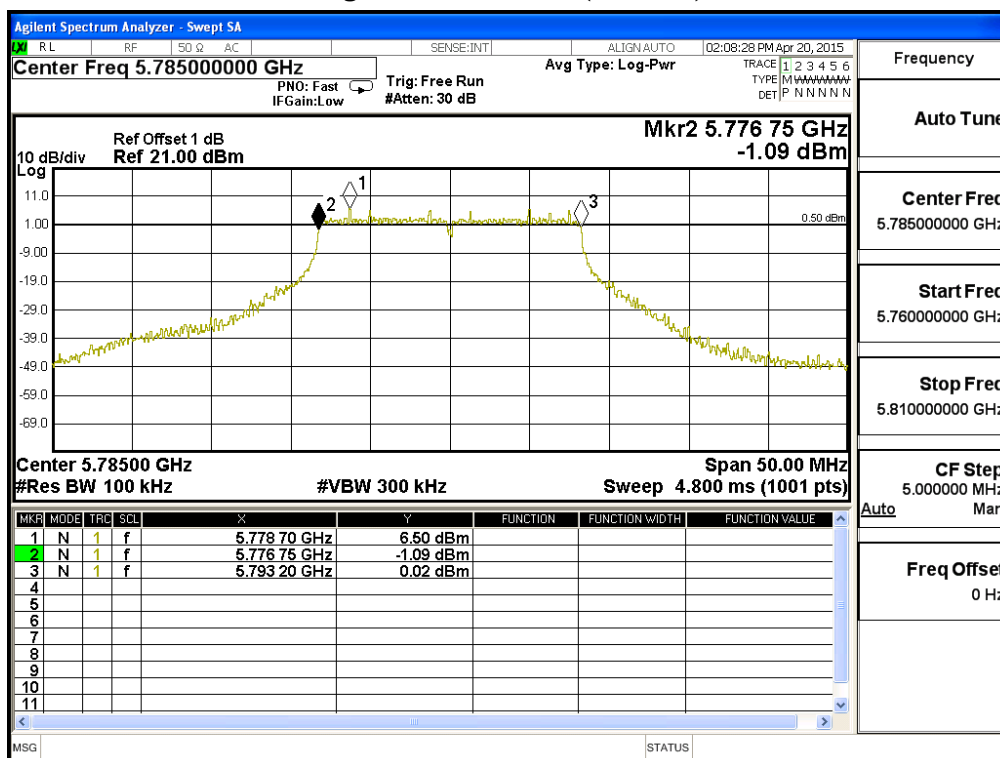


Figure Channel 165: (Chain B)

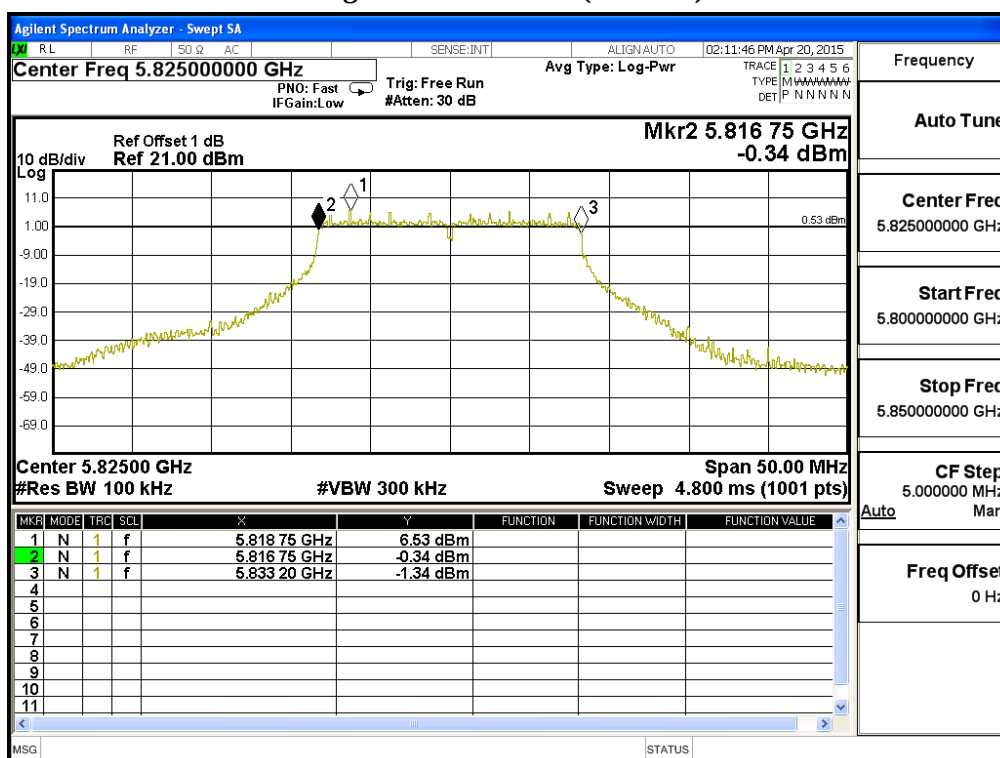


Figure Channel 149: (Chain C)

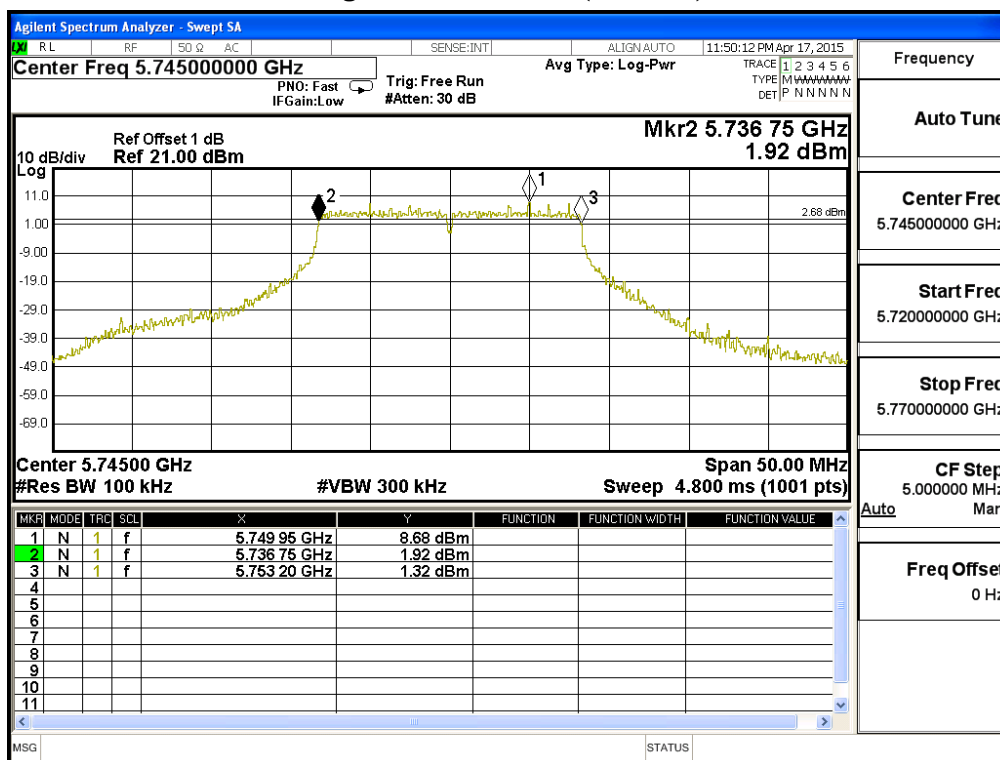
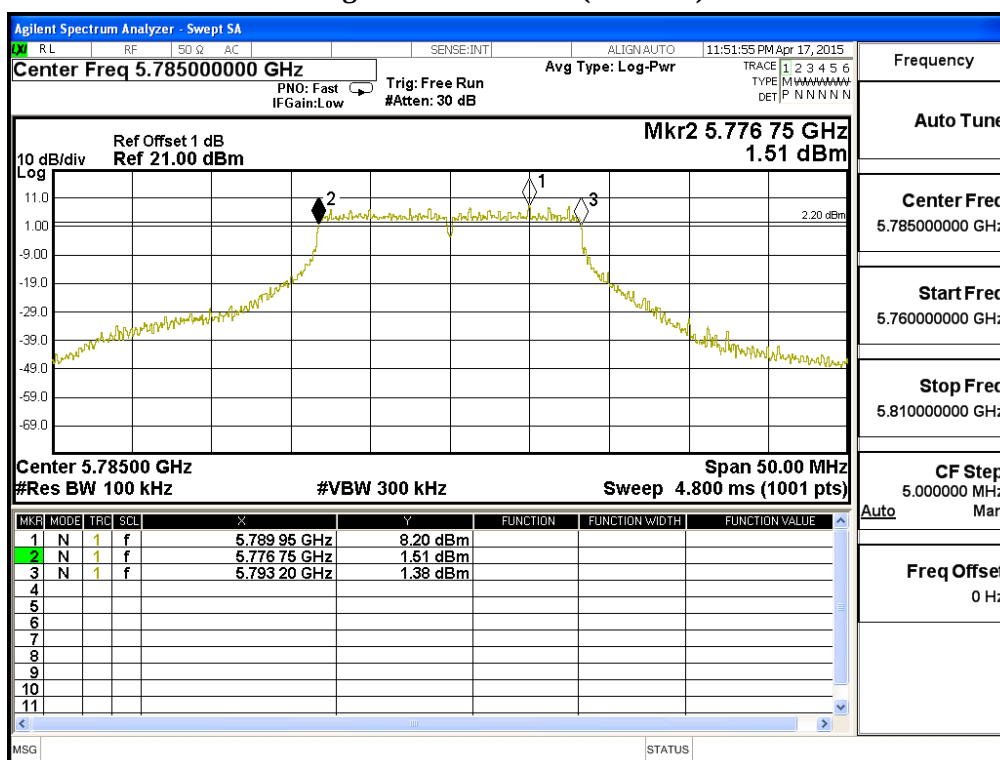


Figure Channel 157: (Chain C)



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 11:56:44 PM Apr 17, 2015

Center Freq 5.825000000 GHz Avg Type: Log-Pwr

PN0: Fast Trig: Free Run
IFGain: Low #Atten: 30 dB

TRACE 1 2 3 4 5 6
TYPE M M M M M M M M
DET P N N N N N

Ref Offset 1 dB
Ref 21.00 dBm

Mkr2 5.816 70 GHz
0.30 dBm

10 dB/div
Log

11.0
1.00
-9.00
-19.0
-29.0
-39.0
-49.0
-59.0
-69.0

1.63 dBm

Center 5.82500 GHz Span 50.00 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4.800 ms (1001 pts)

MR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.817 50 GHz	7.63 dBm			
2	N	1	f	5.816 70 GHz	0.30 dBm			
3	N	1	f	5.833 20 GHz	1.45 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 5.825000000 GHz

Start Freq 5.800000000 GHz

Stop Freq 5.850000000 GHz

CF Step 5.000000 MHz

Auto Man

Freq Offset 0 Hz

Product : Access Point/Sensor
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) (External Antenna)

Channel No.	Frequency (MHz)	Chain (dBm)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	A	17650	>500	Pass
157	5785	A	17650	>500	Pass
165	5825	A	17700	>500	Pass
149	5745	B	17700	>500	Pass
157	5785	B	17650	>500	Pass
165	5825	B	17650	>500	Pass
149	5745	C	17650	>500	Pass
157	5785	C	17650	>500	Pass
165	5825	C	17650	>500	Pass

Figure Channel 149: (Chain A)

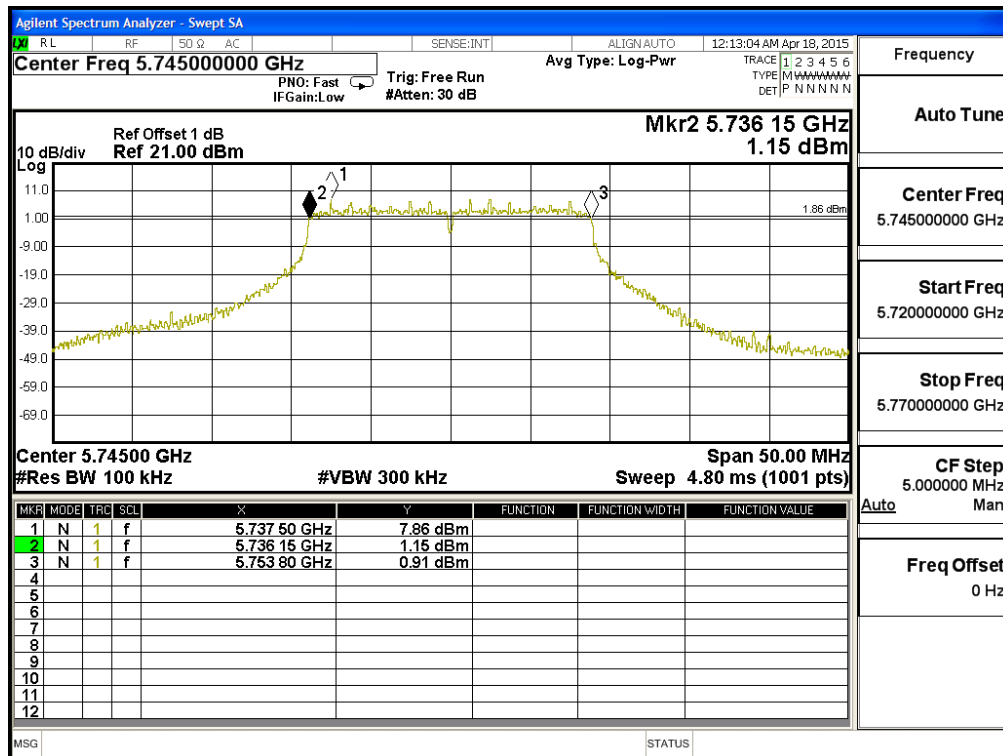


Figure Channel 157: (Chain A)

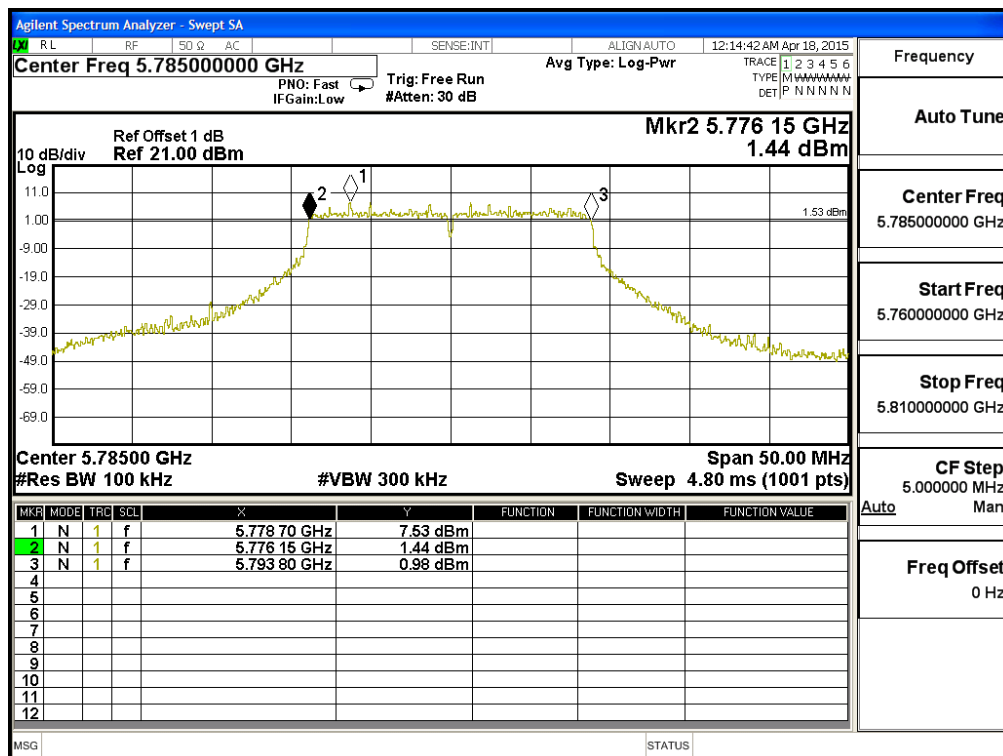


Figure Channel 165: (Chain A)

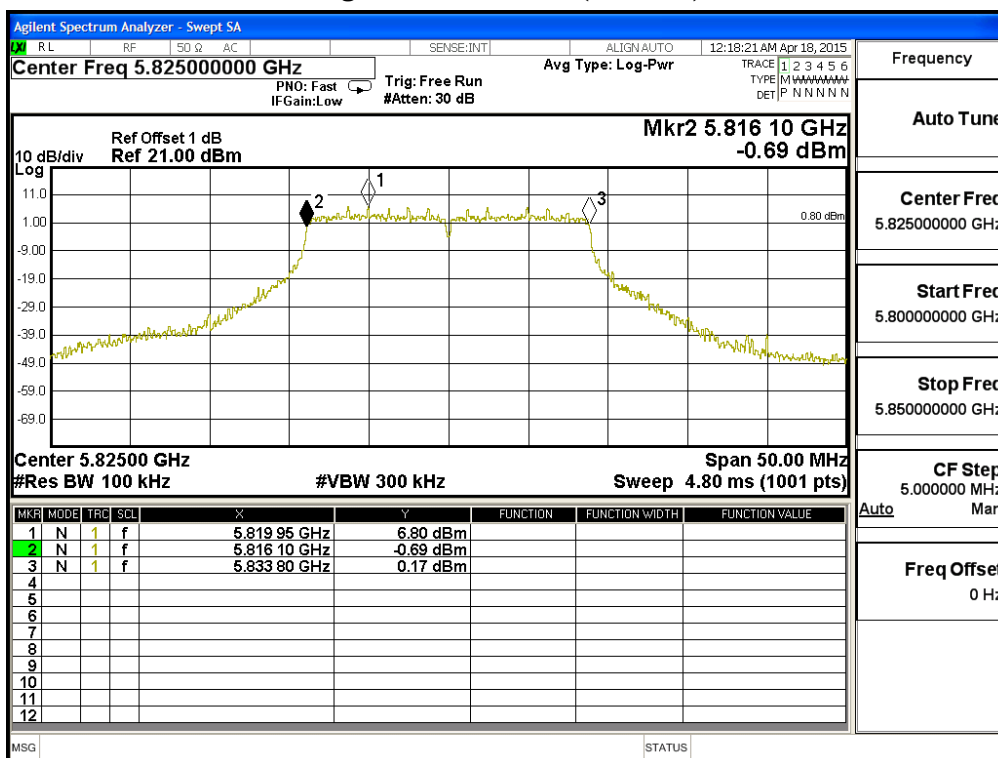


Figure Channel 149: (Chain B)

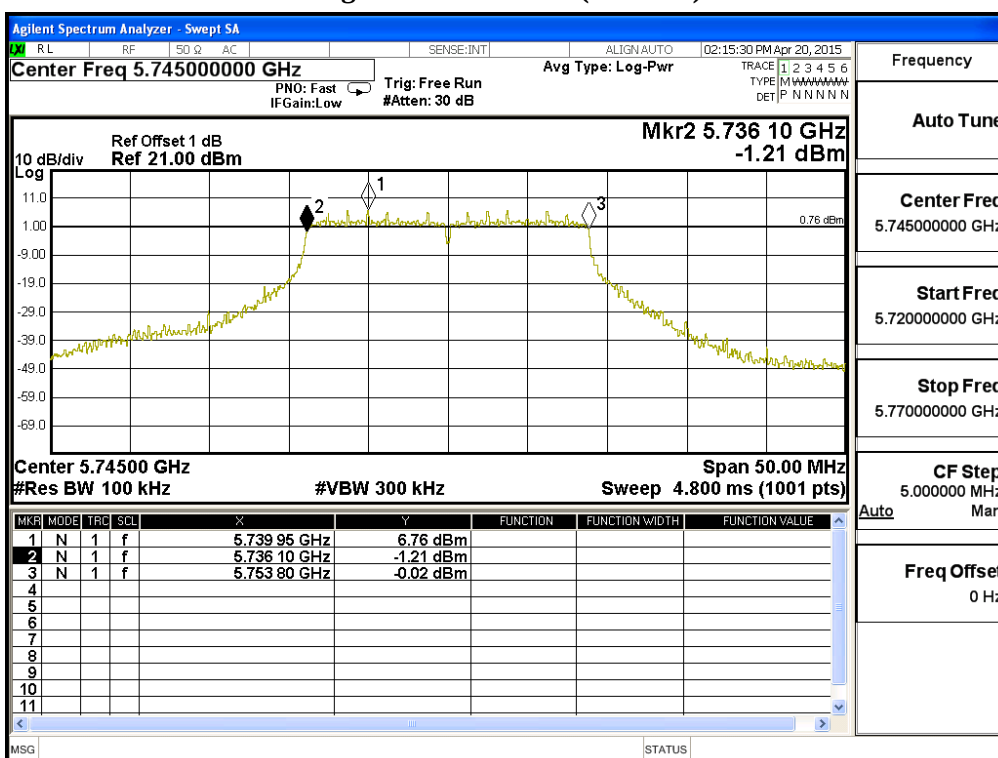


Figure Channel 157: (Chain B)

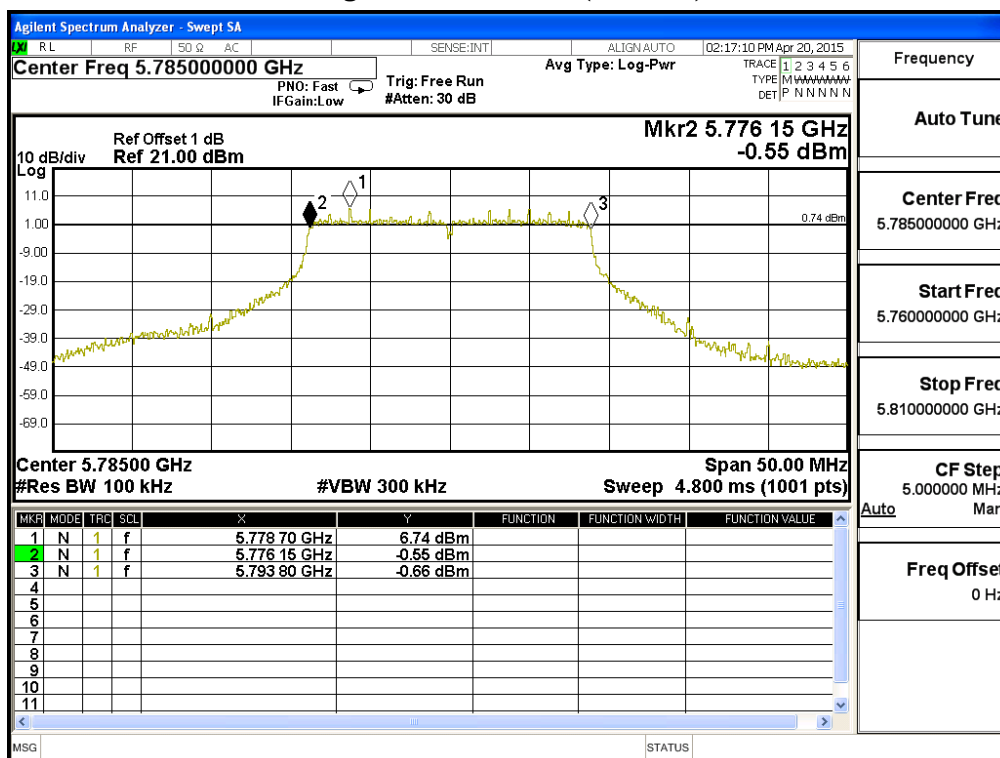


Figure Channel 165: (Chain B)

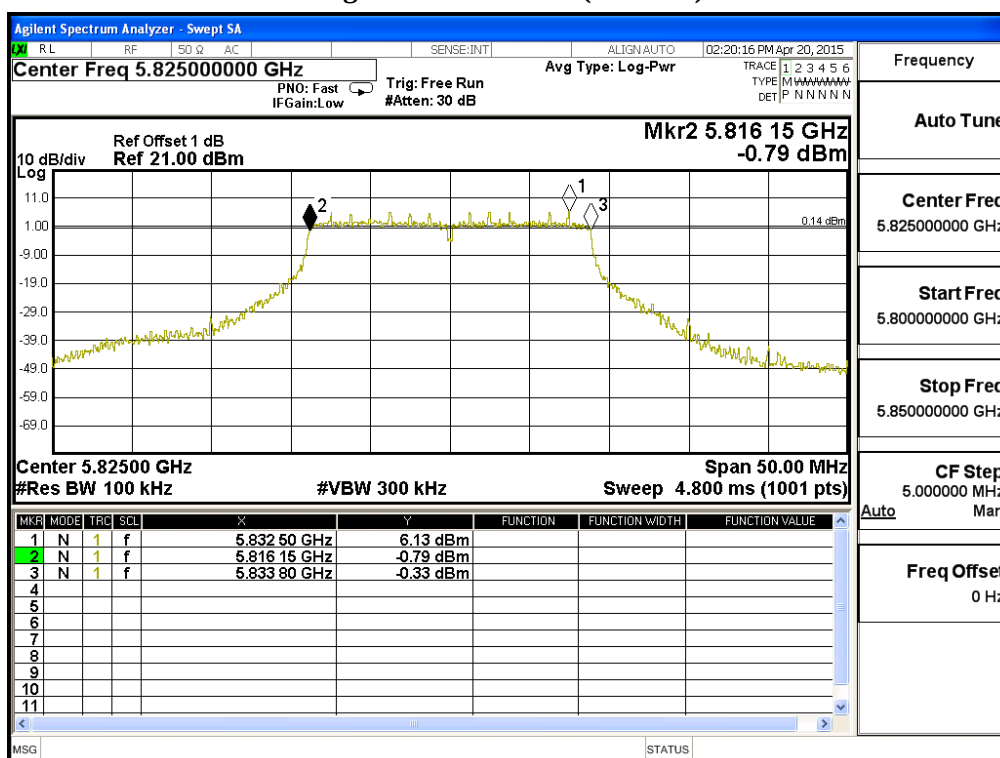


Figure Channel 149: (Chain C)

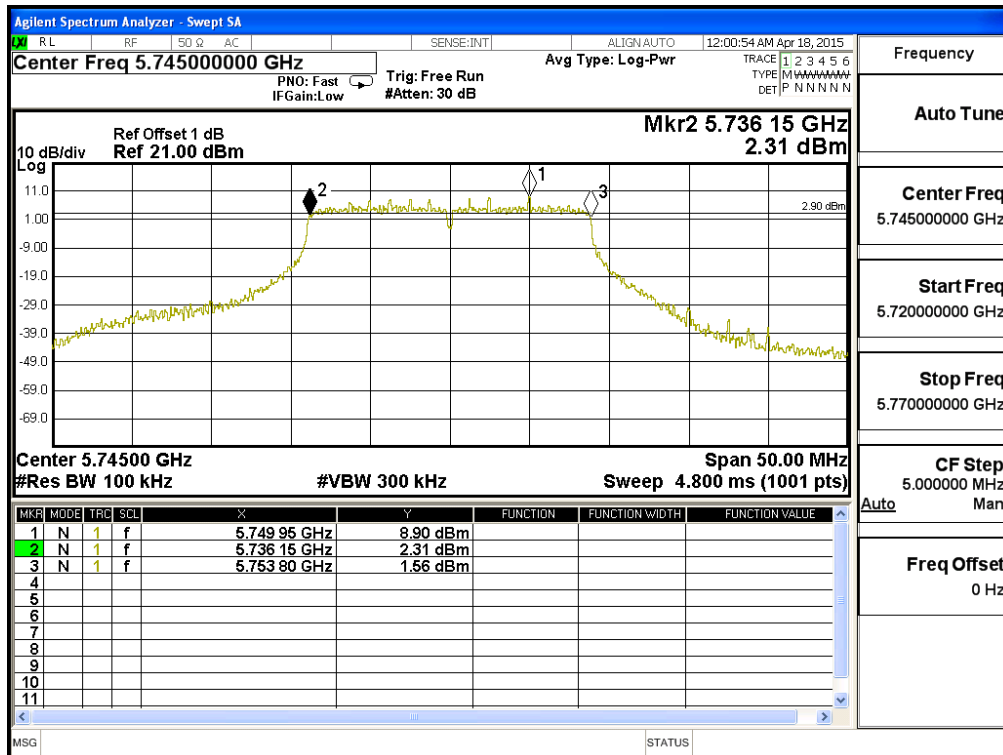
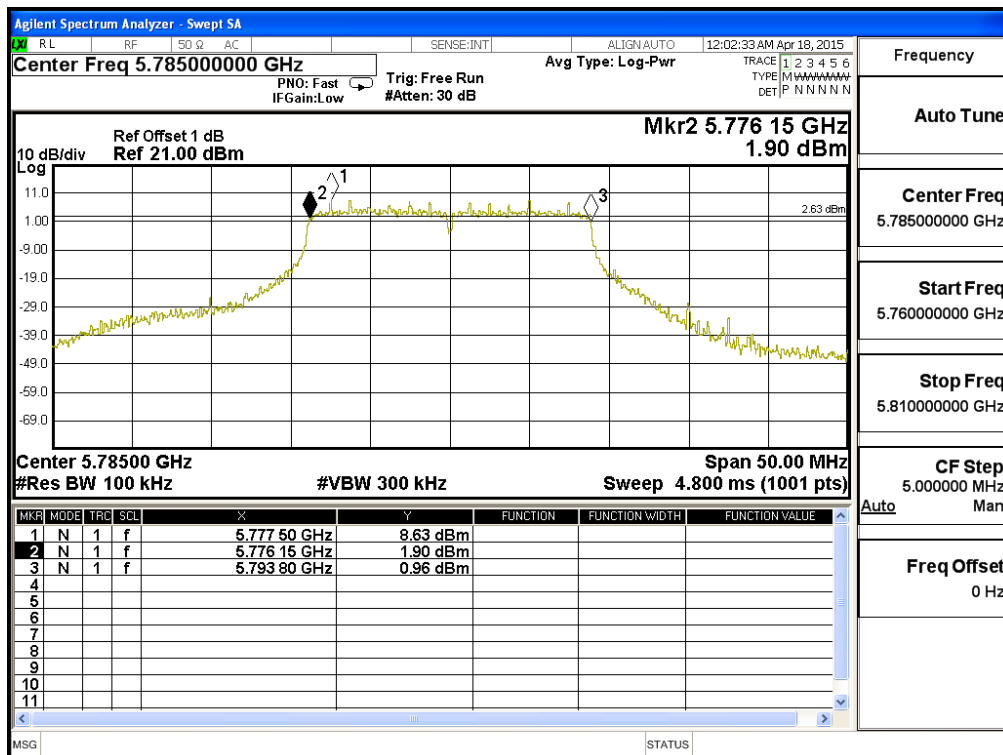


Figure Channel 157: (Chain C)



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 12:06:12 AM Apr 18, 2015

Center Freq 5.82500000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6
TYPE M W I A V N N N N
DET P N N N N N

Mkr2 5.816 15 GHz
2.09 dBm

Ref Offset 1 dB
Ref 21.00 dBm

MkR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.829 95 GHz	8.13 dBm			
2	N	1	f	5.816 15 GHz	2.09 dBm			
3	N	1	f	5.833 80 GHz	1.11 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

Center 5.82500 GHz Span 50.00 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4.800 ms (1001 pts)

MSG STATUS

Product : Access Point/Sensor
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) (External Antenna)

Channel No.	Frequency (MHz)	Chain (dBm)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	A	36200	>500	Pass
159	5795	A	36500	>500	Pass
151	5755	B	35900	>500	Pass
159	5795	B	36200	>500	Pass
151	5755	C	35900	>500	Pass
159	5795	C	35900	>500	Pass

Figure Channel 151: (Chain A)

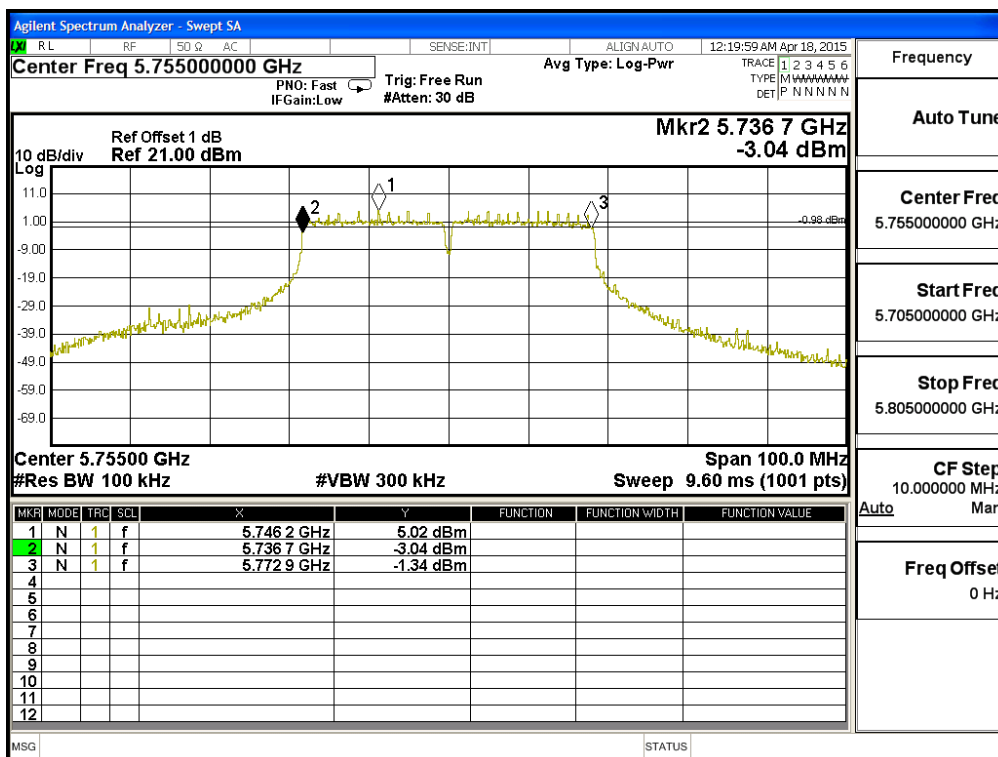


Figure Channel 159: (Chain A)

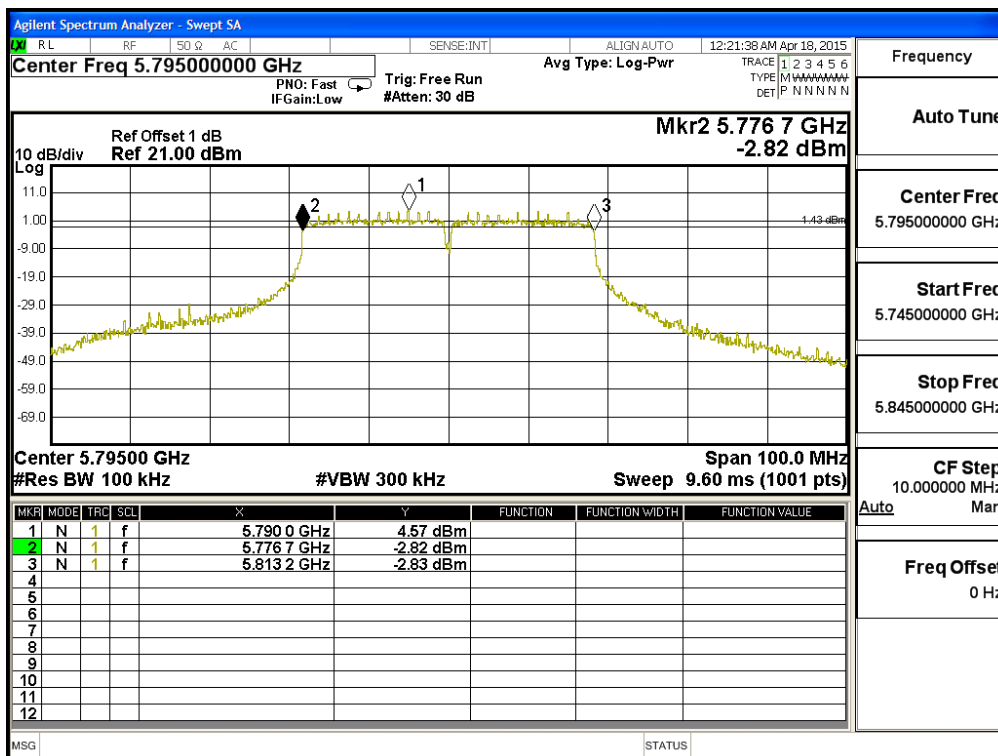


Figure Channel 151: (Chain B)

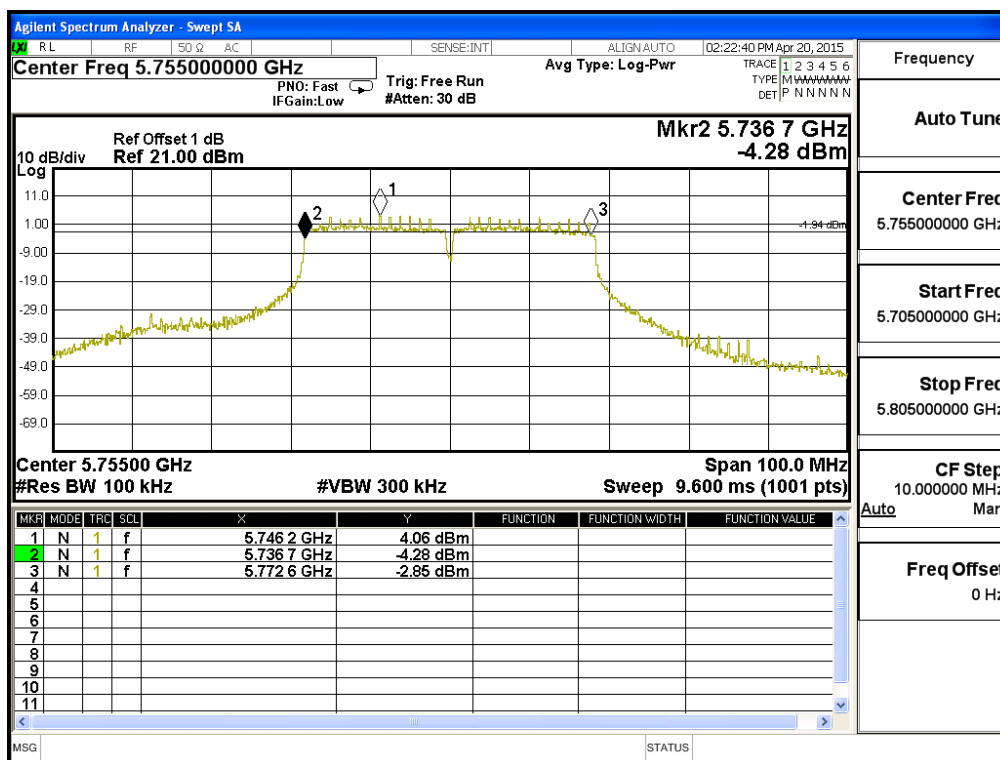


Figure Channel 159: (Chain B)

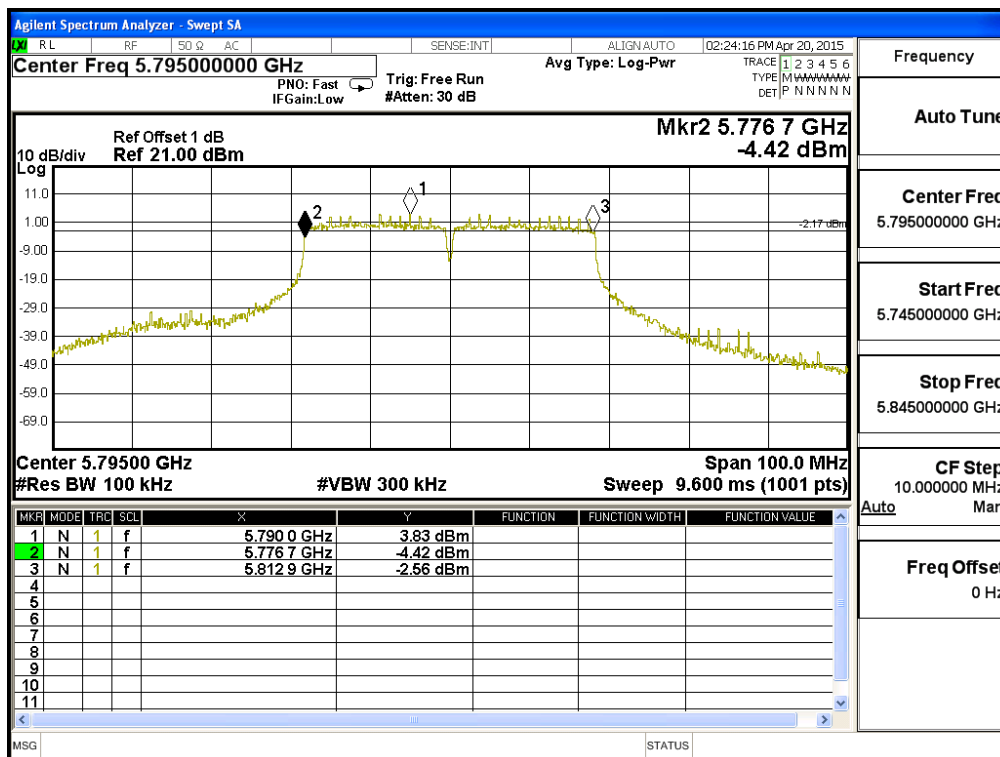


Figure Channel 151: (Chain C)

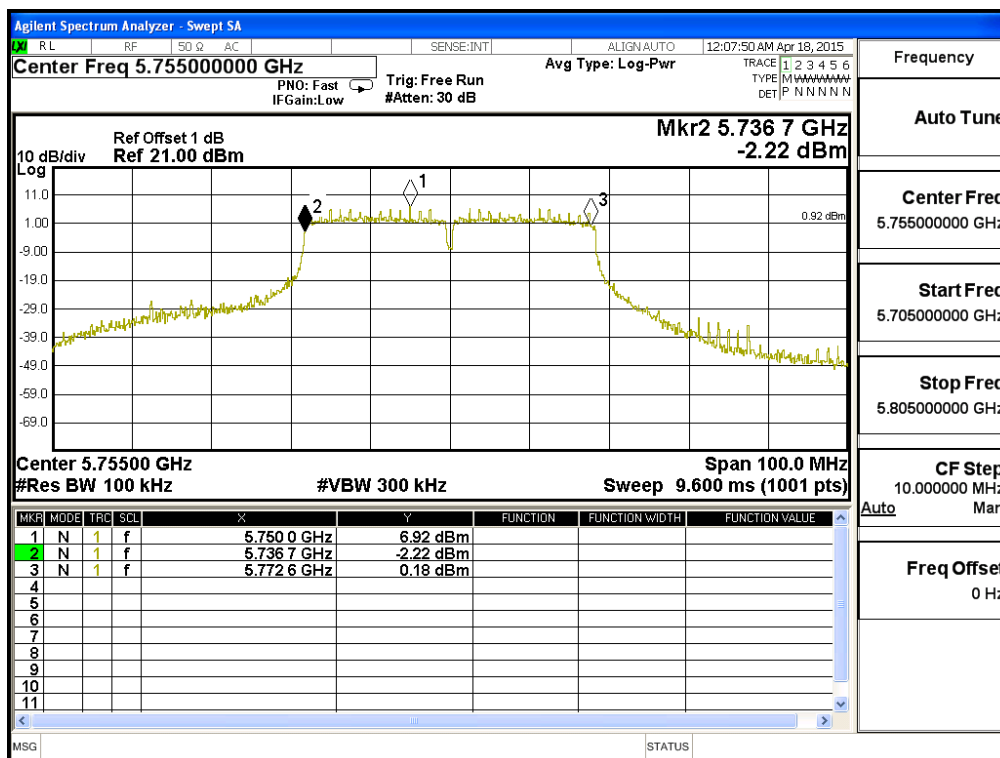
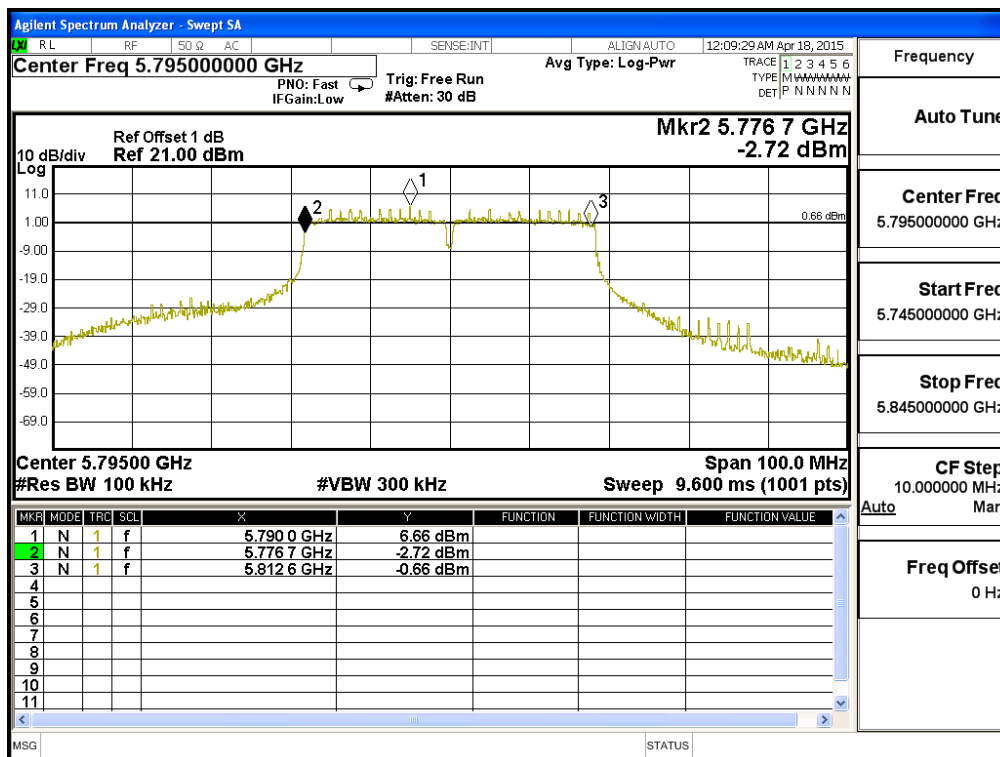


Figure Channel 159: (Chain C)



Product : Access Point/Sensor
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 4 Transmit (802.11ac-80BW-97.5Mbps) (External Antenna)

Channel No.	Frequency (MHz)	Chain (dBm)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	A	75900	>500	Pass
155	5775	B	75900	>500	Pass
155	5775	C	75900	>500	Pass

Figure Channel 155: (Chain A)

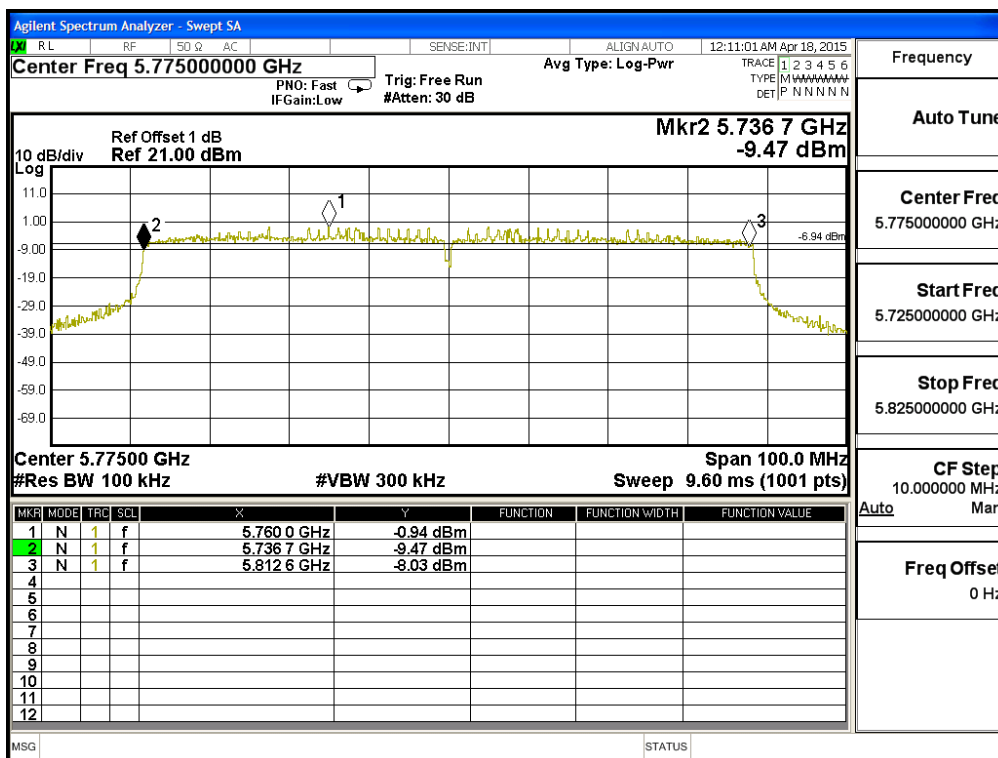


Figure Channel 155: (Chain B)

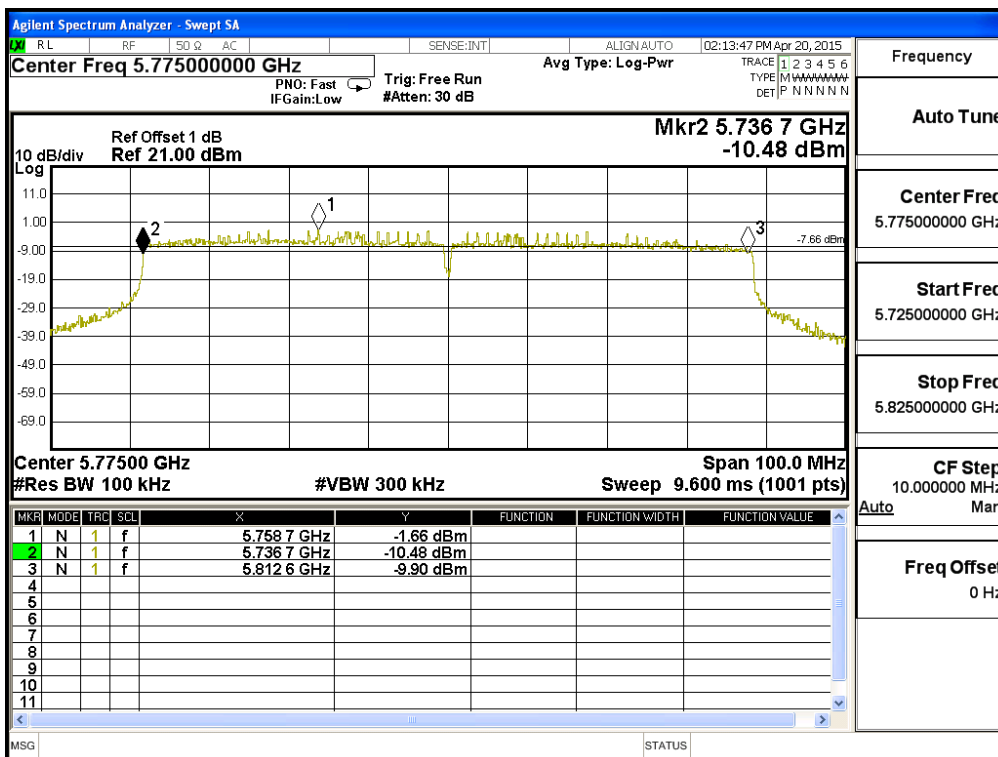
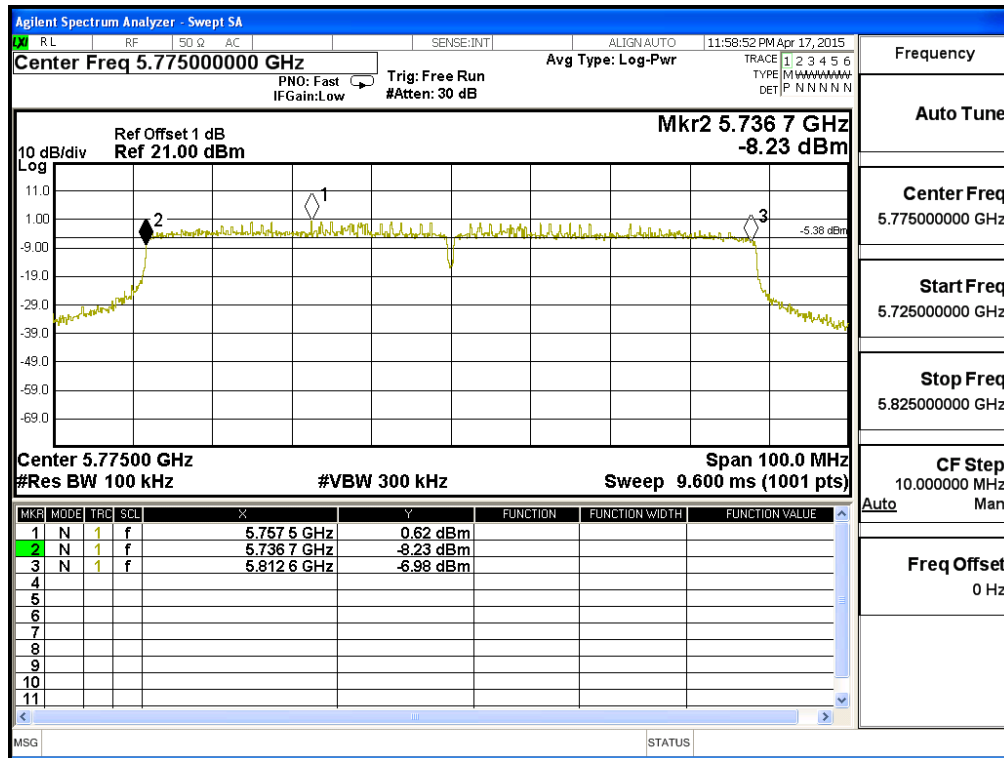


Figure Channel 155: (Chain C)



8. Frequency Stability

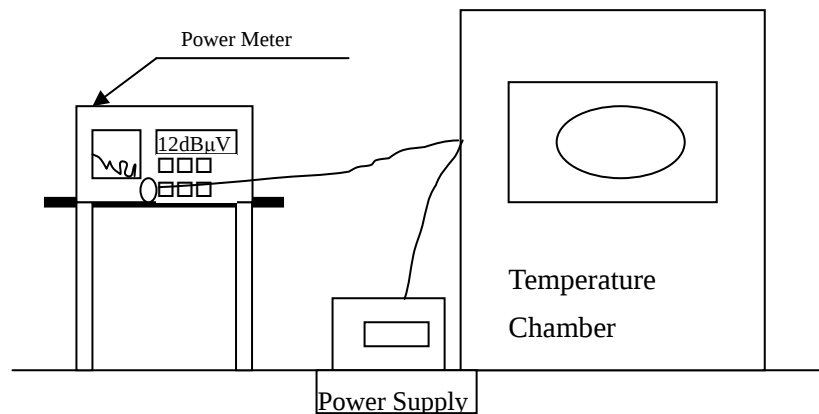
8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

8.2. Test Setup



8.3. Limits

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified

8.4. Test Procedure

The EUT was tested to procedure of ANSI C63.10: 2009 Section 6.8 for compliance to FCC 47 CFR Subpart E requirements.

8.5. Uncertainty

± 150 Hz

8.6. Test Result of Frequency Stability

Product : Access Point/Sensor
Test Item : Frequency Stability
Test Site : Temperature Chamber
Test Mode : Carrier Wave (External Antenna)

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20)°C	Vnom (110)V	36	5180.0000	5179.9970	0.0030
		38	5190.0000	5189.9980	0.0020
		44	5220.0000	5219.9960	0.0040
		46	5230.0000	5229.9940	0.0060
		48	5240.0000	5239.9980	0.0020
		149	5745.0000	5744.9960	0.0040
		151	5755.0000	5754.9980	0.0020
		157	5785.0000	5784.9980	0.0020
		159	5795.0000	5794.9990	0.0010
		165	5825.0000	5824.9970	0.0030
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (55)°C	Vmax (126.5)V	36	5180.0000	5180.0080	-0.0080
		38	5190.0000	5190.0060	-0.0060
		44	5220.0000	5220.0120	-0.0120
		46	5230.0000	5230.0060	-0.0060
		48	5240.0000	5240.0070	-0.0070
		149	5745.0000	5745.0120	-0.0120
		151	5755.0000	5755.0040	-0.0040
		157	5785.0000	5785.0150	-0.0150
		159	5795.0000	5795.0160	-0.0160
		165	5825.0000	5825.0090	-0.0090

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (55)°C	Vmin (93.5)V	36	5180.0000	5180.0160	-0.0160
		38	5190.0000	5190.0090	-0.0090
		44	5220.0000	5220.0070	-0.0070
		46	5230.0000	5230.0110	-0.0110
		48	5240.0000	5240.0140	-0.0140
		149	5745.0000	5745.0120	-0.0120
		151	5755.0000	5755.0080	-0.0080
		157	5785.0000	5785.0180	-0.0180
		159	5795.0000	5795.0060	-0.0060
		165	5825.0000	5825.0120	-0.0120
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmax (126.5)V	36	5180.0000	5180.0660	-0.0660
		38	5190.0000	5190.0680	-0.0680
		44	5220.0000	5220.0660	-0.0660
		46	5230.0000	5230.0720	-0.0720
		48	5240.0000	5240.0690	-0.0690
		149	5745.0000	5745.0720	-0.0720
		151	5755.0000	5755.0740	-0.0740
		157	5785.0000	5785.0680	-0.0680
		159	5795.0000	5795.0810	-0.0810
		165	5825.0000	5825.0910	-0.0910
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmin (93.5)V	36	5180.0000	5180.0680	-0.0680
		38	5190.0000	5190.0820	-0.0820
		44	5220.0000	5220.0740	-0.0740
		46	5230.0000	5230.0680	-0.0680
		48	5240.0000	5240.0740	-0.0740
		149	5745.0000	5745.0760	-0.0760
		151	5755.0000	5755.0820	-0.0820
		157	5785.0000	5785.0680	-0.0680
		159	5795.0000	5795.0740	-0.0740
		165	5825.0000	5825.0860	-0.0860

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	$\triangle F$ (MHz)
Tnom (20)°C	Vnom (110)V	36	5180.0000	5179.9980	0.0020
		38	5190.0000	5189.9990	0.0010
		44	5220.0000	5219.9970	0.0030
		46	5230.0000	5229.9980	0.0020
		48	5240.0000	5239.9980	0.0020
		149	5745.0000	5744.9980	0.0020
		151	5755.0000	5754.9980	0.0020
		157	5785.0000	5784.9970	0.0030
		159	5795.0000	5794.9980	0.0020
		165	5825.0000	5824.9970	0.0030
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	$\triangle F$ (MHz)
Tmax (55)°C	Vmax (126.5)V	36	5180.0000	5180.0060	-0.0060
		38	5190.0000	5190.0080	-0.0080
		44	5220.0000	5220.0020	-0.0020
		46	5230.0000	5230.0120	-0.0120
		48	5240.0000	5240.0060	-0.0060
		149	5745.0000	5745.0030	-0.0030
		151	5755.0000	5755.0120	-0.0120
		157	5785.0000	5785.0100	-0.0100
		159	5795.0000	5795.0060	-0.0060
		165	5825.0000	5825.0080	-0.0080

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (55)°C	Vmin (93.5)V	36	5180.0000	5180.0120	-0.0120
		38	5190.0000	5190.0080	-0.0080
		44	5220.0000	5220.0080	-0.0080
		46	5230.0000	5230.0040	-0.0040
		48	5240.0000	5240.0120	-0.0120
		149	5745.0000	5745.0060	-0.0060
		151	5755.0000	5755.0060	-0.0060
		157	5785.0000	5785.0120	-0.0120
		159	5795.0000	5795.0080	-0.0080
		165	5825.0000	5825.0100	-0.0100
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmax (126.5)V	36	5180.0000	5180.0700	-0.0700
		38	5190.0000	5190.0680	-0.0680
		44	5220.0000	5220.0740	-0.0740
		46	5230.0000	5230.0840	-0.0840
		48	5240.0000	5240.0620	-0.0620
		149	5745.0000	5745.0630	-0.0630
		151	5755.0000	5755.0670	-0.0670
		157	5785.0000	5785.0810	-0.0810
		159	5795.0000	5795.0740	-0.0740
		165	5825.0000	5825.0720	-0.0720
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmin (93.5)V	36	5180.0000	5180.0770	-0.0770
		38	5190.0000	5190.0720	-0.0720
		44	5220.0000	5220.0660	-0.0660
		46	5230.0000	5230.0640	-0.0640
		48	5240.0000	5240.0850	-0.0850
		149	5745.0000	5745.0600	-0.0600
		151	5755.0000	5755.0810	-0.0810
		157	5785.0000	5785.0680	-0.0680
		159	5795.0000	5795.0820	-0.0820
		165	5825.0000	5825.0720	-0.0720

Chain C

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20)°C	Vnom (110)V	36	5180.0000	5179.9980	0.0020
		38	5190.0000	5189.9970	0.0030
		44	5220.0000	5219.9980	0.0020
		46	5230.0000	5229.9960	0.0040
		48	5240.0000	5239.9990	0.0010
		149	5745.0000	5744.9970	0.0030
		151	5755.0000	5754.9960	0.0040
		157	5785.0000	5784.9980	0.0020
		159	5795.0000	5794.9970	0.0030
		165	5825.0000	5824.9980	0.0020
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (55)°C	Vmax (126.5)V	36	5180.0000	5180.0070	-0.0070
		38	5190.0000	5190.0120	-0.0120
		44	5220.0000	5220.0060	-0.0060
		46	5230.0000	5230.0080	-0.0080
		48	5240.0000	5240.0120	-0.0120
		149	5745.0000	5745.0140	-0.0140
		151	5755.0000	5755.0080	-0.0080
		157	5785.0000	5785.0060	-0.0060
		159	5795.0000	5795.0120	-0.0120
		165	5825.0000	5825.0080	-0.0080

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (55)°C	Vmin (93.5)V	36	5180.0000	5180.0120	-0.0120
		38	5190.0000	5190.0120	-0.0120
		44	5220.0000	5220.0080	-0.0080
		46	5230.0000	5230.0060	-0.0060
		48	5240.0000	5240.0120	-0.0120
		149	5745.0000	5745.0080	-0.0080
		151	5755.0000	5755.0110	-0.0110
		157	5785.0000	5785.0080	-0.0080
		159	5795.0000	5795.0120	-0.0120
		165	5825.0000	5825.0090	-0.0090
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmax (126.5)V	36	5180.0000	5180.0650	-0.0650
		38	5190.0000	5190.0580	-0.0580
		44	5220.0000	5220.0810	-0.0810
		46	5230.0000	5230.0720	-0.0720
		48	5240.0000	5240.0680	-0.0680
		149	5745.0000	5745.0810	-0.0810
		151	5755.0000	5755.0620	-0.0620
		157	5785.0000	5785.0650	-0.0650
		159	5795.0000	5795.0820	-0.0820
		165	5825.0000	5825.0740	-0.0740
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmin (93.5)V	36	5180.0000	5180.0580	-0.0580
		38	5190.0000	5190.0620	-0.0620
		44	5220.0000	5220.0620	-0.0620
		46	5230.0000	5230.0740	-0.0740
		48	5240.0000	5240.0830	-0.0830
		149	5745.0000	5745.0740	-0.0740
		151	5755.0000	5755.0680	-0.0680
		157	5785.0000	5785.0740	-0.0740
		159	5795.0000	5795.0620	-0.0620
		165	5825.0000	5825.0710	-0.0710

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20)°C	Vnom (110)V	42	5210.0000	5209.9980	0.0020
		155	5775.0000	5774.9970	0.0030
Tmax (55)°C	Vmax (126.5)V	42	5210.0000	5210.0140	-0.0140
		155	5775.0000	5775.0080	-0.0080
Tmax (55)°C	Vmin (93.5)V	42	5210.0000	5210.0120	-0.0120
		155	5775.0000	5775.0080	-0.0080
Tmin (-20)°C	Vmax (126.5)V	42	5210.0000	5210.0670	-0.0670
		155	5775.0000	5775.0660	-0.0660
Tmin (-20)°C	Vmin (93.5)V	42	5210.0000	5210.0680	-0.0680
		155	5775.0000	5775.0680	-0.0680

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20)°C	Vnom (110)V	42	5210.0000	5209.9970	0.0030
		155	5775.0000	5774.9970	0.0030
Tmax (55)°C	Vmax (126.5)V	42	5210.0000	5210.0150	-0.0150
		155	5775.0000	5775.0080	-0.0080
Tmax (55)°C	Vmin (93.5)V	42	5210.0000	5210.0150	-0.0150
		155	5775.0000	5775.0120	-0.0120
Tmin (-20)°C	Vmax (126.5)V	42	5210.0000	5210.0680	-0.0680
		155	5775.0000	5775.0720	-0.0720
Tmin (-20)°C	Vmin (93.5)V	42	5210.0000	5210.0660	-0.0660
		155	5775.0000	5775.0770	-0.0770

Chain C

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20)°C	Vnom (110)V	42	5210.0000	5209.9980	0.0020
		155	5775.0000	5774.9980	0.0020
Tmax (55)°C	Vmax (126.5)V	42	5210.0000	5210.0070	-0.0070
		155	5775.0000	5775.0120	-0.0120
Tmax (55)°C	Vmin (93.5)V	42	5210.0000	5210.0180	-0.0180
		155	5775.0000	5775.0120	-0.0120
Tmin (-20)°C	Vmax (126.5)V	42	5210.0000	5210.0740	-0.0740
		155	5775.0000	5775.0780	-0.0780
Tmin (-20)°C	Vmin (93.5)V	42	5210.0000	5210.0740	-0.0740
		155	5775.0000	5775.0660	-0.0660

Product : Access Point/Sensor
Test Item : Frequency Stability
Test Site : Temperature Chamber
Test Mode : Carrier Wave (Internal Antenna)

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	$\triangle F$ (MHz)
Tnom (20)°C	Vnom (110)V	36	5180.0000	5179.9970	0.0030
		38	5190.0000	5189.9980	0.0020
		44	5220.0000	5219.9960	0.0040
		46	5230.0000	5229.9940	0.0060
		48	5240.0000	5239.9980	0.0020
		149	5745.0000	5744.9960	0.0040
		151	5755.0000	5754.9980	0.0020
		157	5785.0000	5784.9980	0.0020
		159	5795.0000	5794.9990	0.0010
		165	5825.0000	5824.9970	0.0030
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	$\triangle F$ (MHz)
Tmax (55)°C	Vmax (126.5)V	36	5180.0000	5180.0080	-0.0080
		38	5190.0000	5190.0060	-0.0060
		44	5220.0000	5220.0120	-0.0120
		46	5230.0000	5230.0060	-0.0060
		48	5240.0000	5240.0070	-0.0070
		149	5745.0000	5745.0120	-0.0120
		151	5755.0000	5755.0040	-0.0040
		157	5785.0000	5785.0150	-0.0150
		159	5795.0000	5795.0160	-0.0160
		165	5825.0000	5825.0090	-0.0090

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (55)°C	Vmin (93.5)V	36	5180.0000	5180.0160	-0.0160
		38	5190.0000	5190.0090	-0.0090
		44	5220.0000	5220.0070	-0.0070
		46	5230.0000	5230.0110	-0.0110
		48	5240.0000	5240.0140	-0.0140
		149	5745.0000	5745.0120	-0.0120
		151	5755.0000	5755.0080	-0.0080
		157	5785.0000	5785.0180	-0.0180
		159	5795.0000	5795.0060	-0.0060
		165	5825.0000	5825.0120	-0.0120
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmax (126.5)V	36	5180.0000	5180.0660	-0.0660
		38	5190.0000	5190.0680	-0.0680
		44	5220.0000	5220.0660	-0.0660
		46	5230.0000	5230.0720	-0.0720
		48	5240.0000	5240.0690	-0.0690
		149	5745.0000	5745.0720	-0.0720
		151	5755.0000	5755.0740	-0.0740
		157	5785.0000	5785.0680	-0.0680
		159	5795.0000	5795.0810	-0.0810
		165	5825.0000	5825.0910	-0.0910
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmin (93.5)V	36	5180.0000	5180.0680	-0.0680
		38	5190.0000	5190.0820	-0.0820
		44	5220.0000	5220.0740	-0.0740
		46	5230.0000	5230.0680	-0.0680
		48	5240.0000	5240.0740	-0.0740
		149	5745.0000	5745.0760	-0.0760
		151	5755.0000	5755.0820	-0.0820
		157	5785.0000	5785.0680	-0.0680
		159	5795.0000	5795.0740	-0.0740
		165	5825.0000	5825.0860	-0.0860

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20)°C	Vnom (110)V	36	5180.0000	5179.9980	0.0020
		38	5190.0000	5189.9990	0.0010
		44	5220.0000	5219.9970	0.0030
		46	5230.0000	5229.9980	0.0020
		48	5240.0000	5239.9980	0.0020
		149	5745.0000	5744.9980	0.0020
		151	5755.0000	5754.9980	0.0020
		157	5785.0000	5784.9970	0.0030
		159	5795.0000	5794.9980	0.0020
		165	5825.0000	5824.9970	0.0030
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (55)°C	Vmax (126.5)V	36	5180.0000	5180.0060	-0.0060
		38	5190.0000	5190.0080	-0.0080
		44	5220.0000	5220.0020	-0.0020
		46	5230.0000	5230.0120	-0.0120
		48	5240.0000	5240.0060	-0.0060
		149	5745.0000	5745.0030	-0.0030
		151	5755.0000	5755.0120	-0.0120
		157	5785.0000	5785.0100	-0.0100
		159	5795.0000	5795.0060	-0.0060
		165	5825.0000	5825.0080	-0.0080

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (55)°C	Vmin (93.5)V	36	5180.0000	5180.0120	-0.0120
		38	5190.0000	5190.0080	-0.0080
		44	5220.0000	5220.0080	-0.0080
		46	5230.0000	5230.0040	-0.0040
		48	5240.0000	5240.0120	-0.0120
		149	5745.0000	5745.0060	-0.0060
		151	5755.0000	5755.0060	-0.0060
		157	5785.0000	5785.0120	-0.0120
		159	5795.0000	5795.0080	-0.0080
		165	5825.0000	5825.0100	-0.0100
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmax (126.5)V	36	5180.0000	5180.0700	-0.0700
		38	5190.0000	5190.0680	-0.0680
		44	5220.0000	5220.0740	-0.0740
		46	5230.0000	5230.0840	-0.0840
		48	5240.0000	5240.0620	-0.0620
		149	5745.0000	5745.0630	-0.0630
		151	5755.0000	5755.0670	-0.0670
		157	5785.0000	5785.0810	-0.0810
		159	5795.0000	5795.0740	-0.0740
		165	5825.0000	5825.0720	-0.0720
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20)°C	Vmin (93.5)V	36	5180.0000	5180.0770	-0.0770
		38	5190.0000	5190.0720	-0.0720
		44	5220.0000	5220.0660	-0.0660
		46	5230.0000	5230.0640	-0.0640
		48	5240.0000	5240.0850	-0.0850
		149	5745.0000	5745.0600	-0.0600
		151	5755.0000	5755.0810	-0.0810
		157	5785.0000	5785.0680	-0.0680
		159	5795.0000	5795.0820	-0.0820
		165	5825.0000	5825.0720	-0.0720

Chain C

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	$\triangle F$ (MHz)
Tnom (20)°C	Vnom (110)V	36	5180.0000	5179.9980	0.0020
		38	5190.0000	5189.9970	0.0030
		44	5220.0000	5219.9980	0.0020
		46	5230.0000	5229.9960	0.0040
		48	5240.0000	5239.9990	0.0010
		149	5745.0000	5744.9970	0.0030
		151	5755.0000	5754.9960	0.0040
		157	5785.0000	5784.9980	0.0020
		159	5795.0000	5794.9970	0.0030
		165	5825.0000	5824.9980	0.0020
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	$\triangle F$ (MHz)
Tmax (55)°C	Vmax (126.5)V	36	5180.0000	5180.0070	-0.0070
		38	5190.0000	5190.0120	-0.0120
		44	5220.0000	5220.0060	-0.0060
		46	5230.0000	5230.0080	-0.0080
		48	5240.0000	5240.0120	-0.0120
		149	5745.0000	5745.0140	-0.0140
		151	5755.0000	5755.0080	-0.0080
		157	5785.0000	5785.0060	-0.0060
		159	5795.0000	5795.0120	-0.0120
		165	5825.0000	5825.0080	-0.0080

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	$\triangle F$ (MHz)
Tmax (55)°C	Vmin (93.5)V	36	5180.0000	5180.0120	-0.0120
		38	5190.0000	5190.0120	-0.0120
		44	5220.0000	5220.0080	-0.0080
		46	5230.0000	5230.0060	-0.0060
		48	5240.0000	5240.0120	-0.0120
		149	5745.0000	5745.0080	-0.0080
		151	5755.0000	5755.0110	-0.0110
		157	5785.0000	5785.0080	-0.0080
		159	5795.0000	5795.0120	-0.0120
		165	5825.0000	5825.0090	-0.0090
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	$\triangle F$ (MHz)
Tmin (-20)°C	Vmax (126.5)V	36	5180.0000	5180.0650	-0.0650
		38	5190.0000	5190.0580	-0.0580
		44	5220.0000	5220.0810	-0.0810
		46	5230.0000	5230.0720	-0.0720
		48	5240.0000	5240.0680	-0.0680
		149	5745.0000	5745.0810	-0.0810
		151	5755.0000	5755.0620	-0.0620
		157	5785.0000	5785.0650	-0.0650
		159	5795.0000	5795.0820	-0.0820
		165	5825.0000	5825.0740	-0.0740
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	$\triangle F$ (MHz)
Tmin (-20)°C	Vmin (93.5)V	36	5180.0000	5180.0580	-0.0580
		38	5190.0000	5190.0620	-0.0620
		44	5220.0000	5220.0620	-0.0620
		46	5230.0000	5230.0740	-0.0740
		48	5240.0000	5240.0830	-0.0830
		149	5745.0000	5745.0740	-0.0740
		151	5755.0000	5755.0680	-0.0680
		157	5785.0000	5785.0740	-0.0740
		159	5795.0000	5795.0620	-0.0620
		165	5825.0000	5825.0710	-0.0710

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20)°C	Vnom (110)V	42	5210.0000	5209.9980	0.0020
		155	5775.0000	5774.9970	0.0030
Tmax (55)°C	Vmax (126.5)V	42	5210.0000	5210.0140	-0.0140
		155	5775.0000	5775.0080	-0.0080
Tmax (55)°C	Vmin (93.5)V	42	5210.0000	5210.0120	-0.0120
		155	5775.0000	5775.0080	-0.0080
Tmin (-20)°C	Vmax (126.5)V	42	5210.0000	5210.0670	-0.0670
		155	5775.0000	5775.0660	-0.0660
Tmin (-20)°C	Vmin (93.5)V	42	5210.0000	5210.0680	-0.0680
		155	5775.0000	5775.0680	-0.0680

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20)°C	Vnom (110)V	42	5210.0000	5209.9970	0.0030
		155	5775.0000	5774.9970	0.0030
Tmax (55)°C	Vmax (126.5)V	42	5210.0000	5210.0150	-0.0150
		155	5775.0000	5775.0080	-0.0080
Tmax (55)°C	Vmin (93.5)V	42	5210.0000	5210.0150	-0.0150
		155	5775.0000	5775.0120	-0.0120
Tmin (-20)°C	Vmax (126.5)V	42	5210.0000	5210.0680	-0.0680
		155	5775.0000	5775.0720	-0.0720
Tmin (-20)°C	Vmin (93.5)V	42	5210.0000	5210.0660	-0.0660
		155	5775.0000	5775.0770	-0.0770

Chain C

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20)°C	Vnom (110)V	42	5210.0000	5209.9980	0.0020
		155	5775.0000	5774.9980	0.0020
Tmax (55)°C	Vmax (126.5)V	42	5210.0000	5210.0070	-0.0070
		155	5775.0000	5775.0120	-0.0120
Tmax (55)°C	Vmin (93.5)V	42	5210.0000	5210.0180	-0.0180
		155	5775.0000	5775.0120	-0.0120
Tmin (-20)°C	Vmax (126.5)V	42	5210.0000	5210.0740	-0.0740
		155	5775.0000	5775.0780	-0.0780
Tmin (-20)°C	Vmin (93.5)V	42	5210.0000	5210.0740	-0.0740
		155	5775.0000	5775.0660	-0.0660

9. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs